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Product Manual

TSW-80 Series

TSW-80 Series Wall Mount Touch Screens

Crestron Electronics, Inc.

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TSW-880, TSW-1080, and TSW-1580

This manual covers the TSW-80 Series touch screens.

For TS-80 Series touch screens, refer to the TS-880 and TS-1080 Product Manual.

For TSS-80 Series touch screens, refer to the TSS-880 and TSS-1080 Product Manual.

For Unified Communications (UC) variant touch screens, refer to the TS-1080-UC and TSW-1080-UC Product Manual.

> **Refer to Getting Started on page 74 for important information on using your product and this document.**

This section provides the following information:

- Features
- Physical Description

Features

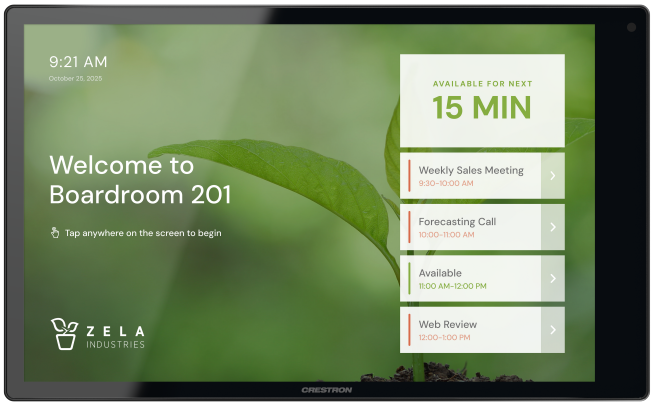
This section provides the following information:

- TSW-880 Features
- TSW-1080 Features
- TSW-880-GV-B Features
- TSW-1080-GV-B Features
- TSW-880R Features
- TSW-1080R Features
- TSW-1580 Features

TSW-880 Features

Key features include:

- Next generation Crestron wall mount touch screen
- 8.1 in. (204 mm) widescreen active-matrix color display and 1280 x 800 WXGA display resolution
- Capacitive touch screen display
- Custom-programmable virtual control buttons
- Supports Crestron HTML5 software custom user projects
- Built-in Rava® SIP intercom
- Built-in speakers and microphone
- H.265, H.264, or MJPEG streaming video display
- Native apps for Crestron Home® OS and various room scheduling services
- Built-in web browsing
- Single wire Ethernet connection with PoE or PoE+ power
- Wi-Fi® network connectivity
- USB-C® 2.0 port for room availability accessories and conferencing
- Enterprise grade security and authentication
- Web, cloud, or device-based configuration
- Electrical box mounting with provided mounting bracket
- Available in white or black finish



Advanced Touch Screen Control

The TSW-880 offers a sleek and powerful user interface for controlling technology in a home, boardroom, conference room, or command center. The touch screen provides an intuitive interface with easy-to-use capacitive controls, true feedback, and real-time status display. A built-in proximity sensor wakes the screen without requiring any user interaction, and automatic brightness controls ensure optimal visibility under varying lighting conditions.

Custom-Programmable Virtual Buttons

The TSW-880 comes preconfigured with virtual buttons for Power, Home, Lights, Up, Down, and Microphone. Each button can be programmed via a Crestron control system to provide custom functionality, and unused buttons can be hidden individually. The universal status bar is expanded or hidden using simple swipe gestures on touch screen display.

Dynamic User Interfaces

The TSW-880 supports custom user interfaces created with Crestron HTML5 User Interface and Crestron Construct™ technologies, allowing greater flexibility for UI developers and programmers.

- Crestron HTML5 User Interface enables UI designers to develop rich, front-end user interfaces with increased reusability and efficiency using modern web methodologies. Development tools are provided to simplify creating user interfaces built on standard web technologies
- Crestron Construct is a cross-platform developer application that enables programmers to create HTML5-based user interfaces within a WYSIWYG (What You See Is What You Get) environment to further simplify UI development.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-880 to display live streaming video from an IP camera or streaming encoder. Video is delivered to the touch screen over Ethernet, eliminating the need for extra video wiring.

Rava SIP Intercom

Rava® SIP Intercom Technology enables hands free VoIP communication with other Rava enabled touch screens and door stations. Rava works over Ethernet, supporting 2-way intercom and paging without requiring any special wiring. VoIP phone capability is also possible through integration with a SIP compatible IP phone system or SIP server, allowing hands free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. The far-field microphone picks up voice communication even when the user is not directly next to the touchscreen. Built in echo cancellation affords full duplex performance for clear, seamless voice communication using the integrated microphone and speakers.[2]

Crestron Room Scheduling App

As part of a complete enterprise solution, the TSW-880 serves as a room booking interface through the Crestron Room Scheduling app. A Crestron scheduling panel can be installed at the entrance of a meeting room to provide indication of the room's availability and schedule for the day. If desired, a room can be reserved on the spot for an ad hoc meeting. A CEN-ODT-C-POE occupancy sensor can also be paired to the touch screen, allowing for occupancy status to be reported instantly to the scheduling app for no shows and unscheduled room usage.[3,4]

Running the Crestron Scheduling App, the TSW-880 integrates directly with Microsoft Exchange Server® software (for users of Outlook® software and Microsoft 365® software), the Google Calendar™ calendaring app (including G Suite™ software), CollegeNET® 25Live® scheduling software, or Ad Astra™ software.

Third-Party Scheduling Apps

The TSW-880 also includes support for various third-party scheduling applications. New providers are made available via firmware or over the air updates. Whatever provider you choose, setup is as simple as connecting the touch screen to the network and choosing an app from the built-in setup screens. The selected app downloads from the cloud and installs on the touch screen without any programming or control system required.[5,6]

Crestron Home OS Control

The TSW-880 is used to control a Crestron Home® OS whole home solution. Select the Crestron Home app from the touch screen to control lighting, shades, climate, media, security, and cameras, including the ability to create and recall scenes that create a desired ambiance throughout a home. A TSW-880 may be installed in each room to provide easy access to various Crestron Home functions for both the room and the home.

Web Browsing

Using its built in web browser, the TSW-880 provides access to online program guides and other web-based services, and it can be used to control DVRs and other devices without having to pick up a tablet or smartphone.[1]

Wired and Wi-Fi Connectivity

An Ethernet LAN connection is all that is required to install the TSW-880, containing all control, video, intercom, and power signals within a single wire.

For deployments without access to Ethernet, the touch screen can also be connected to the network over Wi-Fi communications via a local wireless access point (WAP).

Power over Ethernet

Using PoE technology, the TSW-880 gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches here.

> **NOTE:** Refer to the Power specifications for more details.

SCEP Certificate Management

80 Series touch screens support Simple Certificate Enrollment Protocol (SCEP) and Enrollment over Secure Transport (EST) to automate certificate enrollment, issuance, and renewal across enterprises. SCEP provides fast and standardized certificate authentication with simple renewal capabilities and can be managed through the console, local web UI, and XiO Cloud.

> **NOTE:** The touch screen must run firmware version 1.6 or greater in order to use SCEP/EST certificate management.

Enterprise-Grade Security

Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, MDEP, TLS encryption, HTTPS connectivity, and Active Directory® service integration. These features are imperative to protect your network against service interruptions and malicious intrusions, and to ensure compliance with your organization's network policies. Cloud based configuration and management streamlines the process of monitoring and updating every touch screen on the network. Additional support for SNMP allows the touch screen to be monitored by your IT administrator.

Room Scheduling Accessories

The TSW-880 provides a USB-C® port for connecting supported Crestron room scheduling accessories to the touch screen.[3]

XiO Cloud Service

The TSW-880 is compatible with the XiO Cloud® service, which is an IoT (Internet of Things) based platform for remotely monitoring and managing Crestron devices across an enterprise or an entire client base. Built on the Microsoft® Azure® software platform and utilizing Microsoft's industry leading Azure IoT Hub technology, XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit the XiO Cloud page.

Wall Mount Options

Additional wall mounting options are afforded using the optional TSW-UMB-80 universal mounting bracket, TSW-UMB-80-PMK preconstruction mounting kit, and TSW-UMB-80-BBI back box (sold separately).

Optional Mounting Accessories

The TSW-880 supports numerous optional mounting accessories that allow the touch screen to be installed in all kinds of installations.

- The TSW-880/1080-MSMK multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface, which is ideal for mounting at the entrance to a meeting space for room scheduling applications.[3]
- The TSW-880/1080-MUMK allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.[3]
- The TSW-880/1080-MSMK-ANG multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface while displaying at an angle for easier viewing.
- The TSW-RMB-1, TSW-RMB-2, TSW-RMB-3, and TSW-RMB-5 allows retrofit installations to mounting assembles of previous-generation touch screens.
- The TSW-RMB-3U and TSW-RMK-4U rack mount kits allow a touch screen to be installed into a 19 in. EIA equipment rack.

The TSW-880 is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. Refer to Wall-Smart for more information on supported hardware.

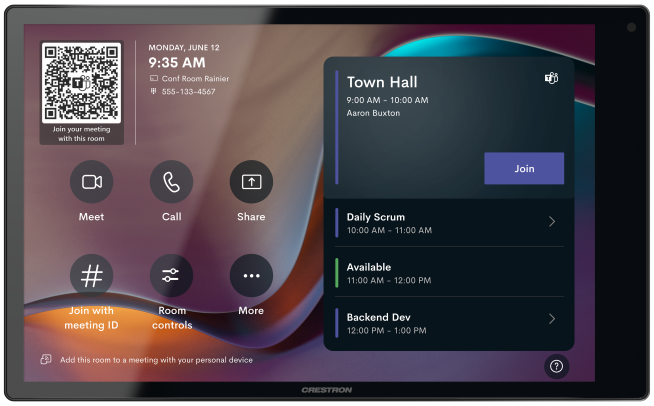
Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. The microphone and Bluetooth® transceiver may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.
4. Room scheduling mode requires the TSW-880 to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
5. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
6. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-880 as they do on a tablet device. The TSW-880 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-880.

TSW-1080 Features

Key features include:

- Next generation Crestron wall mount touch screen
- 10.1 in. (257 mm) widescreen active-matrix color display and 1920x1200 WUXGA display resolution
- Capacitive touch screen display
- Custom-programmable virtual control buttons
- Supports Crestron HTML5 software custom user projects
- Built-in Rava® SIP intercom
- Built-in speakers and microphone
- H.265, H.264, or MJPEG streaming video display
- Native apps for Crestron Home® OS and various room scheduling services
- Built-in web browsing
- Single wire Ethernet connection with PoE or PoE+ power
- Wi-Fi® network connectivity
- USB-C® 2.0 port for room availability accessories and conferencing
- Enterprise grade security and authentication
- Web, cloud, or device-based configuration
- Electrical box mounting with provided mounting bracket
- Available in white or black finish



Advanced Touch Screen Control

The TSW-1080 offers a sleek and powerful user interface for controlling technology in a home, boardroom, conference room, or command center. The touch screen provides an intuitive interface with easy-to-use capacitive controls, true feedback, and real-time status display. A built-in proximity sensor wakes the screen without requiring any user interaction, and automatic brightness controls ensure optimal visibility under varying lighting conditions.

Custom-Programmable Virtual Buttons

The TSW-1080 comes preconfigured with virtual buttons for Power, Home, Lights, Up, Down, and Microphone. Each button can be programmed via a Crestron control system to provide custom functionality, and unused buttons can be hidden individually. The universal status bar is expanded or hidden using simple swipe gestures on touch screen display.

Dynamic User Interfaces

The TSW-1080 supports custom user interfaces created with Crestron HTML5 User Interface and Crestron Construct™ technologies, allowing greater flexibility for UI developers and programmers.

- Crestron HTML5 User Interface enables UI designers to develop rich, front-end user interfaces with increased reusability and efficiency using modern web methodologies. Development tools are provided to simplify creating user interfaces built on standard web technologies
- Crestron Construct is a cross-platform developer application that enables programmers to create HTML5-based user interfaces within a WYSIWYG (What You See Is What You Get) environment to further simplify UI development.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-1080 to display live streaming video from an IP camera or streaming encoder. Video is delivered to the touch screen over Ethernet, eliminating the need for extra video wiring.

Rava SIP Intercom

Rava® SIP Intercom Technology enables hands free VoIP communication with other Rava enabled touch screens and door stations. Rava works over Ethernet, supporting 2-way intercom and paging without requiring any special wiring. VoIP phone capability is also possible through integration with a SIP compatible IP phone system or SIP server, allowing hands free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. The far-field microphone picks up voice communication even when the user is not directly next to the touchscreen. Built in echo cancellation affords full duplex performance for clear, seamless voice communication using the integrated microphone and speakers.[2]

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Third-Party Scheduling Apps

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Web Browsing

Using its built in web browser, the TSW-1080 provides access to online program guides and other web-based services, and it can be used to control DVRs and other devices without having to pick up a tablet or smartphone.[1]

Wired and Wi-Fi Connectivity

An Ethernet LAN connection is all that is required to install the TSW-1080, containing all control, video, intercom, and power signals within a single wire.

For deployments without access to Ethernet, the touch screen can also be connected to the network over Wi-Fi communications via a local wireless access point (WAP).

Power over Ethernet

Using PoE technology, the TSW-1080 gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches here.

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Room Scheduling Accessories

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Wall Mount Options

Additional wall mounting options are afforded using the optional TSW-UMB-80 universal mounting bracket, TSW-UMB-80-PMK preconstruction mounting kit, and TSW-UMB-80-BBI back box (sold separately).

Optional Mounting Accessories

The TSW-1080 supports numerous optional mounting accessories that allow the touch screen to be installed in all kinds of installations.

- The TSW-880/1080-MSMK multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface, which is ideal for mounting at the entrance to a meeting space for room scheduling applications.[3]
- The TSW-880/1080-MUMK allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.[3]
- The TSW-880/1080-MSMK-ANG multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface while displaying at an angle for easier viewing.
- The TSW-RMB-1, TSW-RMB-2, TSW-RMB-3, and TSW-RMB-5 allows retrofit installations to mounting assembles of previous-generation touch screens.
- The TSW-RMB-3U and TSW-RMK-4U rack mount kits allow a touch screen to be installed into a 19 in. EIA equipment rack.

The TSW-1080 is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. Refer to Wall-Smart for more information on supported hardware.

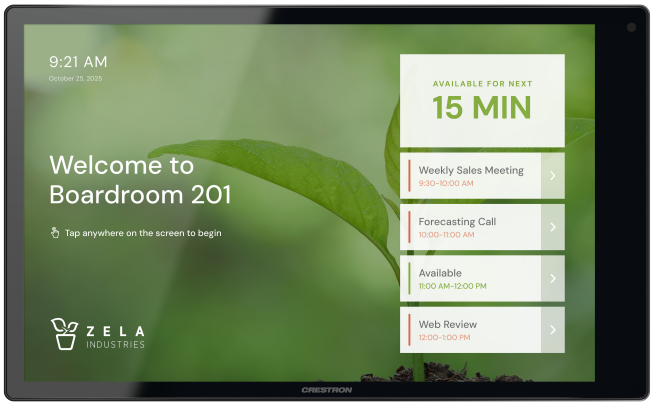
Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. The microphone and Bluetooth® transceiver may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.
4. Room scheduling mode requires the TSW-1080 to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
5. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
6. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-1080 as they do on a tablet device. The TSW-1080 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-1080.

TSW-880-GV-B Features

Key features include:

- Next generation Crestron touch screen
- 8.1 in. (204 mm) widescreen active-matrix color display and 1280 x 800 WXGA display resolution
- Capacitive touch screen display
- Custom-programmable virtual control buttons
- Supports Crestron HTML5 software custom user projects
- Built-in speakers
- H.265, H.264, or MJPEG streaming video display
- Native apps for various room scheduling services
- Built-in web browsing
- Single wire Ethernet connection with PoE or PoE+ power
- USB-C® 2.0 port for room availability accessories and conferencing
- Enterprise grade security and authentication
- Web, cloud, or device-based configuration
- Eliminates the TSW-80 Series microphone, Bluetooth®, proximity sensor, and Wi-Fi® to comply with government security standards



Advanced Touch Screen Control

The TSW-880-GV offers a sleek and powerful user interface for controlling technology in a home, boardroom, conference room, or command center. The touch screen provides an intuitive interface with easy-to-use capacitive controls, true feedback, and real-time status display. Automatic brightness controls ensure optimal visibility under varying lighting conditions.

Custom-Programmable Virtual Buttons

The TSW-880-GV comes preconfigured with virtual buttons for Power, Home, Lights, Up, Down, and Microphone. Each button can be programmed via a Crestron control system to provide custom

functionality, and unused buttons can be hidden individually. The universal status bar is expanded or hidden using simple swipe gestures on touch screen display.

Dynamic User Interfaces

The TSW-880-GV supports custom user interfaces created with Crestron HTML5 User Interface and Crestron Construct™ technologies, allowing greater flexibility for UI developers and programmers.

- Crestron HTML5 User Interface enables UI designers to develop rich, front-end user interfaces with increased reusability and efficiency using modern web methodologies. Development tools are provided to simplify creating user interfaces built on standard web technologies
- Crestron Construct is a cross-platform developer application that enables programmers to create HTML5-based user interfaces within a WYSIWYG (What You See Is What You Get) environment to further simplify UI development.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-880-GV to display live streaming video from an IP camera or streaming encoder. Video is delivered to the touch screen over Ethernet, eliminating the need for extra video wiring.

Crestron Room Scheduling App

As part of a complete enterprise solution, the TSW-880-GV serves as a room booking interface through the Crestron Room Scheduling app. A Crestron scheduling panel can be installed at the entrance of a meeting room to provide indication of the room's availability and schedule for the day. If desired, a room can be reserved on the spot for an ad hoc meeting. A CEN-ODT-C-POE occupancy sensor can also be paired to the touch screen, allowing for occupancy status to be reported instantly to the scheduling app for no shows and unscheduled room usage.[2,3]

Running the Crestron Scheduling App, the TSW-880-GV integrates directly with Microsoft Exchange Server® software (for users of Outlook® software and Microsoft 365® software), the Google Calendar™ calendaring app (including G Suite™ software), CollegeNET® 25Live® scheduling software, or Ad Astra™ software.

Third-Party Scheduling Apps

The TSW-880-GV also includes support for various third-party scheduling applications. New providers are made available via firmware or over the air updates. Whatever provider you choose, setup is as simple as connecting the touch screen to the network and choosing an app from the built-in setup screens. The selected app downloads from the cloud and installs on the touch screen without any programming or control system required.[4,5]

Web Browsing

Using its built in web browser, the TSW-880-GV provides access to online program guides and other web-based services, and it can be used to control DVRs and other devices without having to pick up a tablet or smartphone.[1]

Wired Connectivity

An Ethernet LAN connection is all that is required to install the TSW-880-GV, containing all control, video, and power signals within a single wire.

Power over Ethernet

Using PoE technology, the TSW-880-GV gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches here.

> **NOTE:** Refer to the Power specifications for more details.

SCEP Certificate Management

80 Series touch screens support Simple Certificate Enrollment Protocol (SCEP) and Enrollment over Secure Transport (EST) to automate certificate enrollment, issuance, and renewal across enterprises. SCEP provides fast and standardized certificate authentication with simple renewal capabilities and can be managed through the console, local web UI, and XiO Cloud.

> **NOTE:** The touch screen must run firmware version 1.6 or greater in order to use SCEP/EST certificate management.

Enterprise-Grade Security

Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, MDEP, TLS encryption, HTTPS connectivity, and Active Directory® service integration. These features are imperative to protect your network against service interruptions and malicious intrusions, and to ensure compliance with your organization's network policies. Cloud based configuration and management streamlines the process of monitoring and updating every touch screen on the network. Additional support for SNMP allows the touch screen to be monitored by your IT administrator.

XiO Cloud Service

The TSW-880-GV is compatible with the XiO Cloud® service, which is an IoT (Internet of Things) based platform for remotely monitoring and managing Crestron devices across an enterprise or an entire client base. Built on the Microsoft® Azure® software platform and utilizing Microsoft's industry leading Azure IoT Hub technology, XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit the XiO Cloud page.

Wall Mount Options

Additional wall mounting options are afforded using the optional TSW-UMB-80 universal mounting bracket, TSW-UMB-80-PMK preconstruction mounting kit, and TSW-UMB-80-BBI back box (sold separately).

Optional Mounting Accessories

The TSW-880-GV supports numerous optional mounting accessories that allow the touch screen to be installed in all kinds of installations.

- The TSW-880/1080-MSMK multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface, which is ideal for mounting at the entrance to a meeting space for room scheduling applications.[3]
- The TSW-880/1080-MUMK allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.[3]
- The TSW-880/1080-MSMK-ANG multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface while displaying at an angle for easier viewing.
- The TSW-RMB-1, TSW-RMB-2, TSW-RMB-3, and TSW-RMB-5 allows retrofit installations to mounting assembles of previous-generation touch screens.
- The TSW-RMB-3U and TSW-RMK-4U rack mount kits allow a touch screen to be installed into a 19 in. EIA equipment rack.

The TSW-880-GV is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. Refer to Wall-Smart for more information on supported hardware.

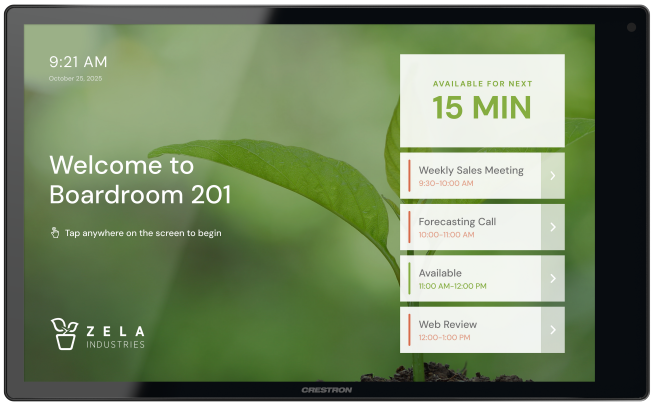
Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. Item(s) sold separately. Refer to each product's spec sheet for complete information.
3. Room scheduling mode requires the TSW-880-GV to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
4. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
5. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-880-GV as they do on a tablet device. The TSW-880-GV runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-880-GV.

TSW-1080-GV-B Features

Key features include:

- Next generation Crestron touch screen
- 10.1 in. (257 mm) widescreen active-matrix color display and 1920x1200 WUXGA display resolution
- Capacitive touch screen display
- Custom-programmable virtual control buttons
- Supports Crestron HTML5 software custom user projects
- Built-in speakers
- H.265, H.264, or MJPEG streaming video display
- Native apps for various room scheduling services
- Built-in web browsing
- Single wire Ethernet connection with PoE or PoE+ power
- USB-C® 2.0 port for room availability accessories and conferencing
- Enterprise grade security and authentication
- Web, cloud, or device-based configuration
- Eliminates the TSW-80 Series microphone, Bluetooth®, proximity sensor, and Wi-Fi® to comply with government security standards



Advanced Touch Screen Control

The TSW-1080-GV offers a sleek and powerful user interface for controlling technology in a home, boardroom, conference room, or command center. The touch screen provides an intuitive interface with easy-to-use capacitive controls, true feedback, and real-time status display. Automatic brightness controls ensure optimal visibility under varying lighting conditions.

Custom-Programmable Virtual Buttons

The TSW-1080-GV comes preconfigured with virtual buttons for Power, Home, Lights, Up, Down, and Microphone. Each button can be programmed via a Crestron control system to provide custom

functionality, and unused buttons can be hidden individually. The universal status bar is expanded or hidden using simple swipe gestures on touch screen display.

Dynamic User Interfaces

The TSW-1080-GV supports custom user interfaces created with Crestron HTML5 User Interface and Crestron Construct™ technologies, allowing greater flexibility for UI developers and programmers.

- Crestron HTML5 User Interface enables UI designers to develop rich, front-end user interfaces with increased reusability and efficiency using modern web methodologies. Development tools are provided to simplify creating user interfaces built on standard web technologies
- Crestron Construct is a cross-platform developer application that enables programmers to create HTML5-based user interfaces within a WYSIWYG (What You See Is What You Get) environment to further simplify UI development.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-1080-GV to display live streaming video from an IP camera or streaming encoder. Video is delivered to the touch screen over Ethernet, eliminating the need for extra video wiring.

Crestron Room Scheduling App

As part of a complete enterprise solution, the TSW-1080-GV serves as a room booking interface through the Crestron Room Scheduling app. A Crestron scheduling panel can be installed at the entrance of a meeting room to provide indication of the room's availability and schedule for the day. If desired, a room can be reserved on the spot for an ad hoc meeting. A CEN-ODT-C-POE occupancy sensor can also be paired to the touch screen, allowing for occupancy status to be reported instantly to the scheduling app for no shows and unscheduled room usage.[2,3]

Running the Crestron Scheduling App, the TSW-1080-GV integrates directly with Microsoft Exchange Server® software (for users of Outlook® software and Microsoft 365® software), the Google Calendar™ calendaring app (including G Suite™ software), CollegeNET® 25Live® scheduling software, or Ad Astra™ software.

Third-Party Scheduling Apps

The TSW-1080-GV also includes support for various third-party scheduling applications. New providers are made available via firmware or over the air updates. Whatever provider you choose, setup is as simple as connecting the touch screen to the network and choosing an app from the built-in setup screens. The selected app downloads from the cloud and installs on the touch screen without any programming or control system required.[4,5]

Web Browsing

Using its built in web browser, the TSW-1080-GV provides access to online program guides and other web-based services, and it can be used to control DVRs and other devices without having to pick up a tablet or smartphone.[1]

Wired Connectivity

An Ethernet LAN connection is all that is required to install the TSW-1080-GV, containing all control, video, and power signals within a single wire.

Power over Ethernet

Using PoE technology, the TSW-1080-GV gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches here.

> **NOTE:** Refer to the Power specifications for more details.

SCEP Certificate Management

80 Series touch screens support Simple Certificate Enrollment Protocol (SCEP) and Enrollment over Secure Transport (EST) to automate certificate enrollment, issuance, and renewal across enterprises. SCEP provides fast and standardized certificate authentication with simple renewal capabilities and can be managed through the console, local web UI, and XiO Cloud.

> **NOTE:** The touch screen must run firmware version 1.6 or greater in order to use SCEP/EST certificate management.

Enterprise-Grade Security

Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, MDEP, TLS encryption, HTTPS connectivity, and Active Directory® service integration. These features are imperative to protect your network against service interruptions and malicious intrusions, and to ensure compliance with your organization's network policies. Cloud based configuration and management streamlines the process of monitoring and updating every touch screen on the network. Additional support for SNMP allows the touch screen to be monitored by your IT administrator.

XiO Cloud Service

The TSW-1080-GV is compatible with the XiO Cloud® service, which is an IoT (Internet of Things) based platform for remotely monitoring and managing Crestron devices across an enterprise or an entire client base. Built on the Microsoft® Azure® software platform and utilizing Microsoft's industry leading Azure IoT Hub technology, XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit the XiO Cloud page.

Wall Mount Options

Additional wall mounting options are afforded using the optional TSW-UMB-80 universal mounting bracket, TSW-UMB-80-PMK preconstruction mounting kit, and TSW-UMB-80-BBI back box (sold separately).

Optional Mounting Accessories

The TSW-1080-GV supports numerous optional mounting accessories that allow the touch screen to be installed in all kinds of installations.

- The TSW-880/1080-MSMK multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface, which is ideal for mounting at the entrance to a meeting space for room scheduling applications.[3]
- The TSW-880/1080-MUMK allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.[3]
- The TSW-880/1080-MSMK-ANG multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface while displaying at an angle for easier viewing.
- The TSW-RMB-1, TSW-RMB-2, TSW-RMB-3, and TSW-RMB-5 allows retrofit installations to mounting assembles of previous-generation touch screens.
- The TSW-RMB-3U and TSW-RMK-4U rack mount kits allow a touch screen to be installed into a 19 in. EIA equipment rack.

The TSW-1080-GV is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. Refer to Wall-Smart for more information on supported hardware.

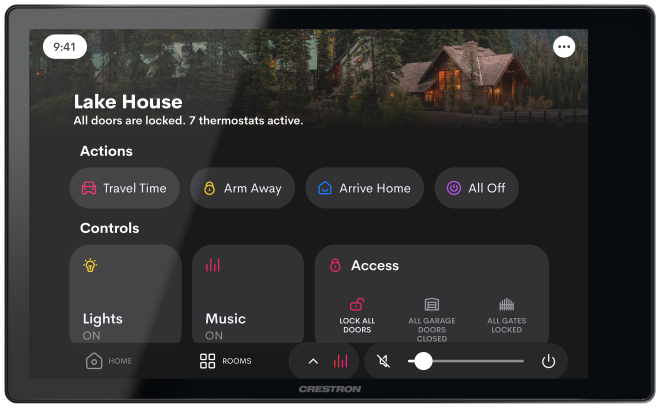
Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. Item(s) sold separately. Refer to each product's spec sheet for complete information.
3. Room scheduling mode requires the TSW-1080-GV to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
4. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
5. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-1080-GV as they do on a tablet device. The TSW-1080-GV runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-1080-GV.

TSW-880R Features

Key features include:

- Next generation Crestron touch screen featuring a native Crestron Home® OS application
- 8.1 in. (204 mm) widescreen active-matrix color display and 1280 x 800 WXGA display resolution
- Capacitive touch screen display
- Built-in Rava® SIP intercom
- Built-in speakers and microphone
- H.265, H.264, or MJPEG streaming video display
- Single wire Ethernet connection with PoE or PoE+ power
- Wi-Fi® network connectivity
- USB-C® 2.0 port for room availability accessories and conferencing
- Enterprise grade security and authentication
- Web or device-based configuration
- Available in white or black finish



Crestron Home OS Control

The is used to control a Crestron Home® OS whole home solution. Select the Crestron Home app from the touch screen to control lighting, shades, climate, media, security, and cameras, including the ability to create and recall scenes that create a desired ambiance throughout a home. A TSW-880R may be installed in each room to provide easy access to various Crestron Home functions for both the room and the home.

Advanced Touch Screen Control

The TSW-880R offers a sleek and powerful user interface for controlling technology in a home via the Crestron Home app. The touch screen provides an intuitive interface with easy-to-use capacitive controls, true feedback, and real-time status display. Automatic brightness controls ensure optimal visibility under varying lighting conditions.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-880R to display live streaming video from an IP camera or streaming encoder. Video is delivered to the touch screen over Ethernet, eliminating the need for extra video wiring.

Rava SIP Intercom

Rava® SIP Intercom Technology enables hands free VoIP communication with other Rava enabled touch screens and door stations. Rava works over Ethernet, supporting 2-way intercom and paging without requiring any special wiring. VoIP phone capability is also possible through integration with a SIP compatible IP phone system or SIP server, allowing hands free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. The far-field microphone picks up voice communication even when the user is not directly next to the touchscreen. Built in echo cancellation affords full duplex performance for clear, seamless voice communication using the integrated microphone and speakers.

Wired and Wi-Fi Connectivity

An Ethernet LAN connection is all that is required to install the TSW-880R, containing all control, video, intercom, and power signals within a single wire.

For deployments without access to Ethernet, the touch screen can also be connected to the network over Wi-Fi communications via a local wireless access point (WAP).

Power over Ethernet

Using PoE technology, the TSW-880R gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches here.

> **NOTE:** Refer to the Power specifications for more details.

SCEP Certificate Management

80 Series touch screens support Simple Certificate Enrollment Protocol (SCEP) and Enrollment over Secure Transport (EST) to automate certificate enrollment, issuance, and renewal across enterprises. SCEP provides fast and standardized certificate authentication with simple renewal capabilities and can be managed through the console, local web UI, and XiO Cloud.

> **NOTE:** The touch screen must run firmware version 1.6 or greater in order to use SCEP/EST certificate management.

Enterprise-Grade Security

Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, MDEP, TLS encryption, HTTPS connectivity, and Active Directory® service integration.

Wall Mount Options

Additional wall mounting options are afforded using the optional TSW-UMB-80 universal mounting bracket, TSW-UMB-80-PMK preconstruction mounting kit, and TSW-UMB-80-BBI back box (sold separately).

Optional Mounting Accessories

The TSW-880R supports numerous optional mounting accessories that allow the touch screen to be installed in all kinds of installations.

- The TSW-880/1080-MSMK multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface.[3]
- The TSW-880/1080-MUMK allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.[3]
- The TSW-880/1080-MSMK-ANG multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface while displaying at an angle for easier viewing.
- The TSW-RMB-1, TSW-RMB-2, TSW-RMB-3, and TSW-RMB-5 allows retrofit installations to mounting assembles of previous-generation touch screens.
- The TSW-RMB-3U and TSW-RMK-4U rack mount kits allow a touch screen to be installed into a 19 in. EIA equipment rack.

The TSW-880R is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. Refer to Wall-Smart for more information on supported hardware.

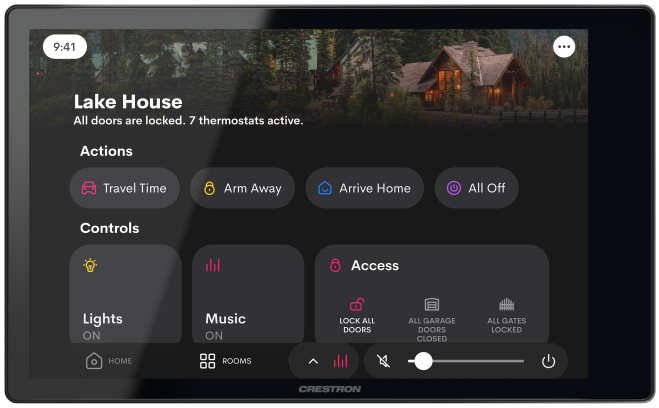
Notes:

1. Certain other functions require an internet connection.
2. The microphone may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.

TSW-1080R Features

Key features include:

- Next generation Crestron touch screen featuring a native Crestron Home® OS application
- 10.1 in. (257 mm) widescreen active-matrix color display and 1920x1200 WUXGA display resolution
- Capacitive touch screen display
- Built-in Rava® SIP intercom
- Built-in speakers and microphone
- H.265, H.264, or MJPEG streaming video display
- Single wire Ethernet connection with PoE or PoE+ power
- Wi-Fi® network connectivity
- USB-C® 2.0 port for room availability accessories and conferencing
- Enterprise grade security and authentication
- Web or device-based configuration
- Available in white or black finish



Crestron Home OS Control

The is used to control a Crestron Home® OS whole home solution. Select the Crestron Home app from the touch screen to control lighting, shades, climate, media, security, and cameras, including the ability to create and recall scenes that create a desired ambiance throughout a home. A TSW-1080R may be installed in each room to provide easy access to various Crestron Home functions for both the room and the home.

Advanced Touch Screen Control

The TSW-1080R offers a sleek and powerful user interface for controlling technology in a home via the Crestron Home app. The touch screen provides an intuitive interface with easy-to-use capacitive controls, true feedback, and real-time status display. Automatic brightness controls ensure optimal visibility under varying lighting conditions.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-1080R to display live streaming video from an IP camera or streaming encoder. Video is delivered to the touch screen over Ethernet, eliminating the need for extra video wiring.

Rava SIP Intercom

Rava® SIP Intercom Technology enables hands free VoIP communication with other Rava enabled touch screens and door stations. Rava works over Ethernet, supporting 2-way intercom and paging without requiring any special wiring. VoIP phone capability is also possible through integration with a SIP compatible IP phone system or SIP server, allowing hands free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. The far-field microphone picks up voice communication even when the user is not directly next to the touchscreen. Built in echo cancellation affords full duplex performance for clear, seamless voice communication using the integrated microphone and speakers.

Wired and Wi-Fi Connectivity

An Ethernet LAN connection is all that is required to install the TSW-1080R, containing all control, video, intercom, and power signals within a single wire.

For deployments without access to Ethernet, the touch screen can also be connected to the network over Wi-Fi communications via a local wireless access point (WAP).

Power over Ethernet

Using PoE technology, the TSW-1080R gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches here.

> **NOTE:** Refer to the Power specifications for more details.

SCEP Certificate Management

80 Series touch screens support Simple Certificate Enrollment Protocol (SCEP) and Enrollment over Secure Transport (EST) to automate certificate enrollment, issuance, and renewal across enterprises. SCEP provides fast and standardized certificate authentication with simple renewal capabilities and can be managed through the console, local web UI, and XiO Cloud.

> **NOTE:** The touch screen must run firmware version 1.6 or greater in order to use SCEP/EST certificate management.

Enterprise-Grade Security

Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, MDEP, TLS encryption, HTTPS connectivity, and Active Directory® service integration.

Wall Mount Options

Additional wall mounting options are afforded using the optional TSW-UMB-80 universal mounting bracket, TSW-UMB-80-PMK preconstruction mounting kit, and TSW-UMB-80-BBI back box (sold separately).

Optional Mounting Accessories

The TSW-1080R supports numerous optional mounting accessories that allow the touch screen to be installed in all kinds of installations.

- The TSW-880/1080-MSMK multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface.[3]
- The TSW-880/1080-MUMK allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.[3]
- The TSW-880/1080-MSMK-ANG multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface while displaying at an angle for easier viewing.
- The TSW-RMB-1, TSW-RMB-2, TSW-RMB-3, and TSW-RMB-5 allows retrofit installations to mounting assembles of previous-generation touch screens.
- The TSW-RMB-3U and TSW-RMK-4U rack mount kits allow a touch screen to be installed into a 19 in. EIA equipment rack.

The TSW-1080R is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. Refer to Wall-Smart for more information on supported hardware.

Notes:

1. Certain other functions require an internet connection.
2. The microphone may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.

TSW-1580 Features

Key features include:

- Next generation Crestron touch screen
- 15 in. (381 mm) widescreen active-matrix color display and 1920 x 1080 display resolution
- Capacitive touch screen display
- Custom-programmable virtual control buttons
- Supports Crestron HTML5 software custom user projects
- Built-in speakers and microphone
- H.265, H.264, or MJPEG streaming video display
- Native apps for Crestron Home® OS and various room scheduling services
- Built-in web browsing
- Single wire Ethernet connection with PoE+ power
- Wi-Fi® network connectivity
- USB-C® 2.0 port for room availability accessories and conferencing
- Enterprise grade security and authentication
- Web, cloud, or device-based configuration
- VESA 100 mm mount compliant
- Available in white or black finish



Advanced Touch Screen Control

The offers a sleek and powerful user interface for controlling technology in a home, boardroom, conference room, or command center. The touch screen provides an intuitive interface with easy-to-use capacitive controls, true feedback, and real-time status display. A built-in proximity sensor wakes the screen without requiring any user interaction, and automatic brightness controls ensure optimal visibility under varying lighting conditions.

Custom-Programmable Virtual Buttons

The TSW-1580 comes preconfigured with virtual buttons for Power, Home, Lights, Up, Down, and Microphone. Each button can be programmed via a Crestron control system to provide custom functionality, and unused buttons can be hidden individually. The universal status bar is expanded or hidden using simple swipe gestures on touch screen display.

Dynamic User Interfaces

The TSW-1580 supports custom user interfaces created with Crestron HTML5 User Interface and Crestron Construct™ technologies, allowing greater flexibility for UI developers and programmers.

- Crestron HTML5 User Interface enables UI designers to develop rich, front-end user interfaces with increased reusability and efficiency using modern web methodologies. Development tools are provided to simplify creating user interfaces built on standard web technologies
- Crestron Construct is a cross-platform developer application that enables programmers to create HTML5-based user interfaces within a WYSIWYG (What You See Is What You Get) environment to further simplify UI development.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-1580 to display live streaming video from an IP camera or streaming encoder. Video is delivered to the touch screen over Ethernet, eliminating the need for extra video wiring.

Rava SIP Intercom

Rava® SIP Intercom Technology enables hands free VoIP communication with other Rava enabled touch screens and door stations. Rava works over Ethernet, supporting 2-way intercom and paging without requiring any special wiring. VoIP phone capability is also possible through integration with a SIP compatible IP phone system or SIP server, allowing hands free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. The far-field microphone picks up voice communication even when the user is not directly next to the touchscreen. Built in echo cancellation affords full duplex performance for clear, seamless voice communication using the integrated microphone and speakers.[1]

Crestron Room Scheduling App

As part of a complete enterprise solution, the TSW-1580 serves as a room booking interface through the Crestron Room Scheduling app. A Crestron scheduling panel can be installed at the entrance of a meeting room to provide indication of the room's availability and schedule for the day. If desired, a room can be reserved on the spot for an ad hoc meeting. A CEN-ODT-C-POE occupancy sensor can also be paired to the touch screen, allowing for occupancy status to be reported instantly to the scheduling app for no shows and unscheduled room usage.[2,3]

Running the Crestron Scheduling App, the TSW-1580 integrates directly with Microsoft Exchange Server® software (for users of Outlook® software and Microsoft 365® software), the Google Calendar™ calendaring app (including G Suite™ software), CollegeNET® 25Live® scheduling software, or Ad Astra™ software.

Third-Party Scheduling Apps

The TSW-1580 also includes support for various third-party scheduling applications. New providers are made available via firmware or over the air updates. Whatever provider you choose, setup is as simple as connecting the touch screen to the network and choosing an app from the built-in setup screens. The selected app downloads from the cloud and installs on the touch screen without any programming or control system required.[4,5]

Crestron Home OS Control

The TSW-1580 is used to control a Crestron Home® OS whole home solution. Select the Crestron Home app from the touch screen to control lighting, shades, climate, media, security, and cameras, including the ability to create and recall scenes that create a desired ambiance throughout a home. A TSW-1580 may be installed in each room to provide easy access to various Crestron Home functions for both the room and the home.

Web Browsing

Using its built in web browser, the TSW-1580 provides access to online program guides and other web-based services, and it can be used to control DVRs and other devices without having to pick up a tablet or smartphone.[6]

Wired and Wi-Fi Connectivity

An Ethernet LAN connection is all that is required to install the TSW-1580, containing all control, video, intercom, and power signals within a single wire.

For deployments without access to Ethernet, the touch screen can also be connected to the network over Wi-Fi communications via a local wireless access point (WAP).

Power over Ethernet

Using PoE+ technology, the TSW-1580 gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches here.

> **NOTE:** The TSW-1580 is only compatible with PoE+. Refer to the Power specifications for more details.

SCEP Certificate Management

80 Series touch screens support Simple Certificate Enrollment Protocol (SCEP) and Enrollment over Secure Transport (EST) to automate certificate enrollment, issuance, and renewal across enterprises. SCEP provides fast and standardized certificate authentication with simple renewal capabilities and can be managed through the console, local web UI, and XiO Cloud.

NOTE: The touch screen must run firmware version 1.6 or greater in order to use SCEP/EST certificate management.

Enterprise-Grade Security

Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, MDEP, TLS encryption, HTTPS connectivity, and Active Directory® service integration. These features are imperative to protect your network against service interruptions and malicious intrusions, and to ensure compliance with your organization's network policies. Cloud based configuration and management streamlines the process of monitoring and updating every touch screen on the network. Additional support for SNMP allows the touch screen to be monitored by your IT administrator.

Room Scheduling Accessories

The TSW-1580 provides a USB-C® port for connecting supported Crestron room scheduling accessories to the touch screen.[2]

Mounting Options

The TSW-1580 can be mounted with a standard VESA 100 mm mount to a wall, table, or desk with a compatible monitor arm mount (not included). For postconstruction mounting solutions, the touch screen also can be installed with the TSW-1580-TTK tabletop kit or the TSW-1580-WMK wall mount kit (sold separately). The TSW-1580 is also compatible with the SMK-100 swivel mount when used with the TSW-1580-TTK.

Notes:

1. The microphone and Bluetooth® transceiver may be defeated programmatically at any time.
2. Item(s) sold separately. Refer to each product's spec sheet for complete information.
3. Room scheduling mode requires the TSW-1580 to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
4. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
5. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-1580 as they do on a tablet device. The TSW-1580 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-1580.
6. Web browsing, weather information, and certain other functions require an internet connection.

Physical Description

This section provides the following information:

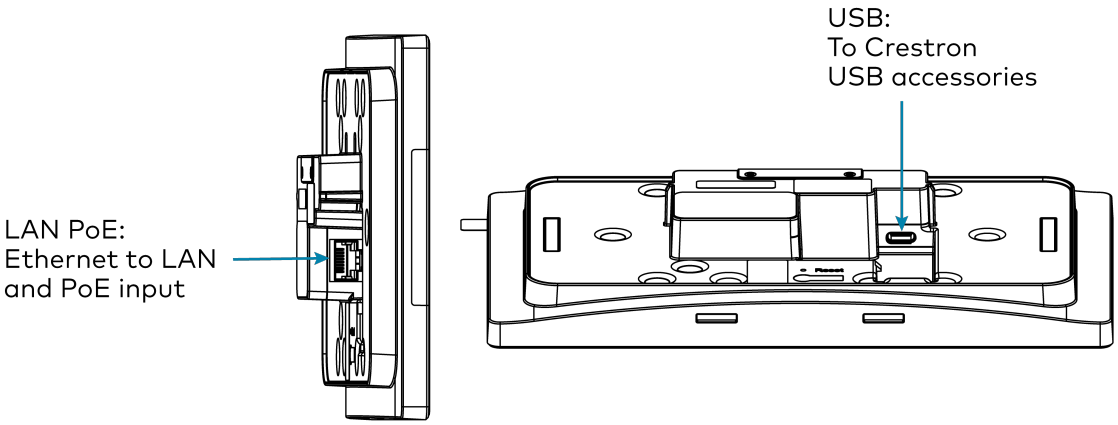
- TSW-880 and TSW-1080 Physical Description
- TSW-1580 Physical Description

TSW-880 and TSW-1080 Physical Description

The TSW-880 and TSW-1080 provide the following connectors, controls, and indicators.

Rear

The following illustration shows the rear of the touch screen.



① **LAN PoE:** (1) 8-pin RJ-45 connector, female, with 2 LED indicators;
1000BASE-TX Ethernet port;
PoE+ PD port;
Green and yellow LEDs indicate Ethernet port status

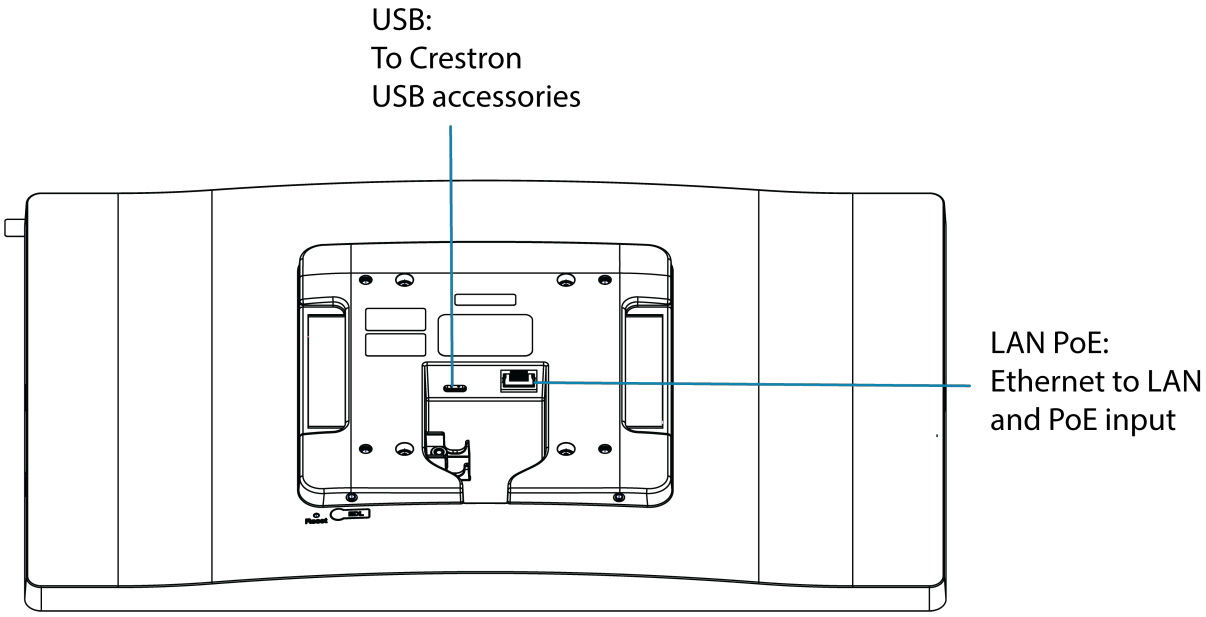
② **USB:** (1) USB Type C connector, female;
USB 2.0 host port

TSW-1580 Physical Description

The TSW-1580 provides the following connectors, controls, and indicators.

Rear

The following illustration shows the rear of the touch screen.



① **LAN PoE:** (1) 8-pin RJ-45 connector, female, with 2 LED indicators;
1000BASE-TX Ethernet port;
PoE+ PD port;
Green and yellow LEDs indicate Ethernet port status

② **USB:** (1) USB Type C connector, female;
USB 2.0 host port

Specifications

This section provides the following information:

- TSW-880 Specifications
- TSW-1080 Specifications
- TSW-880-GV-B Specifications
- TSW-1080-GV-B Specifications
- TSW-880R Specifications
- TSW-1080R Specifications
- TSW-1580 Specifications

TSW-880 Specifications

Product specifications for the TSW-880 are provided below.

Product Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	8.1 in. (204 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1280 x 800 pixels
Brightness	Minimum: 350 nits (cd/m2) Maximum: 400 nits (cd/m2)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone
Reset	(1) Pin hole on rear for hardware reset

Graphics Engine

Crestron HTML5 multilanguage web browser[1], multilanguage on-screen keyboard, screensaver, dual scalable streaming video window , native room scheduling applications [4,5,6], native Crestron Home® OS app, touch screen setup and diagnostics via web browser, cloud, or on-screen UI

Room Scheduling Support

Crestron Scheduling App	Microsoft Exchange Server® and Microsoft 365® software, Google Calendar™ calendaring app and G Suite™ software, CollegeNET® 25Live® software, and Ad Astra™ software
Third-Party Apps	Includes support for various third-party scheduling applications.[4,5,6]

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3 at compliant
USB	USB 2.0 host for room scheduling accessories

Wireless Communications

Transceiver	IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E (2.4, 5 GHz and 6GHz) 2x2 MIMO, static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA, WPA2, WPA3, WPA Enterprise and WPA2 Enterprise
Range	Up to 50 ft (15 m), subject to site-specific conditions
Bluetooth® Hardware	BLE, BT5.2, 33 ft (10 m) typical range
Radio Frequency (RF) signals	Proximity sensor (Japan): 60.5 to 61 GHz Proximity sensor (Worldwide): 61 to 61.5 GHz

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in microphone[2] and speakers, Rava® SIP Intercom

Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port; USB 3.1 DisplayPort Alt Mode (coming soon)

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1)

> **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	ABS plastic housing, smooth black or white finish, glass with black or white surround
Mounting	Surface mount over a 2 or 3-gang US electrical box, 2-gang European (DIN 49073) electrical box, or 2-gang UK (BS 4662) electrical box; Lectern mount over a 2 in. H x 3-3/4 in. W (51 mm H x 96 mm W) cutout; 1-3/8 in. (35 mm) minimum mounting depth; Wall mount, surface mount, and rack options available separately

Dimensions

Height	4.88 in. (124 mm)
Width	7.93 in. (201 mm)
Depth	1.18 in. (30 mm)

Weight

14.46 oz (410 g)

Compliance

Regulatory Model: M202404001

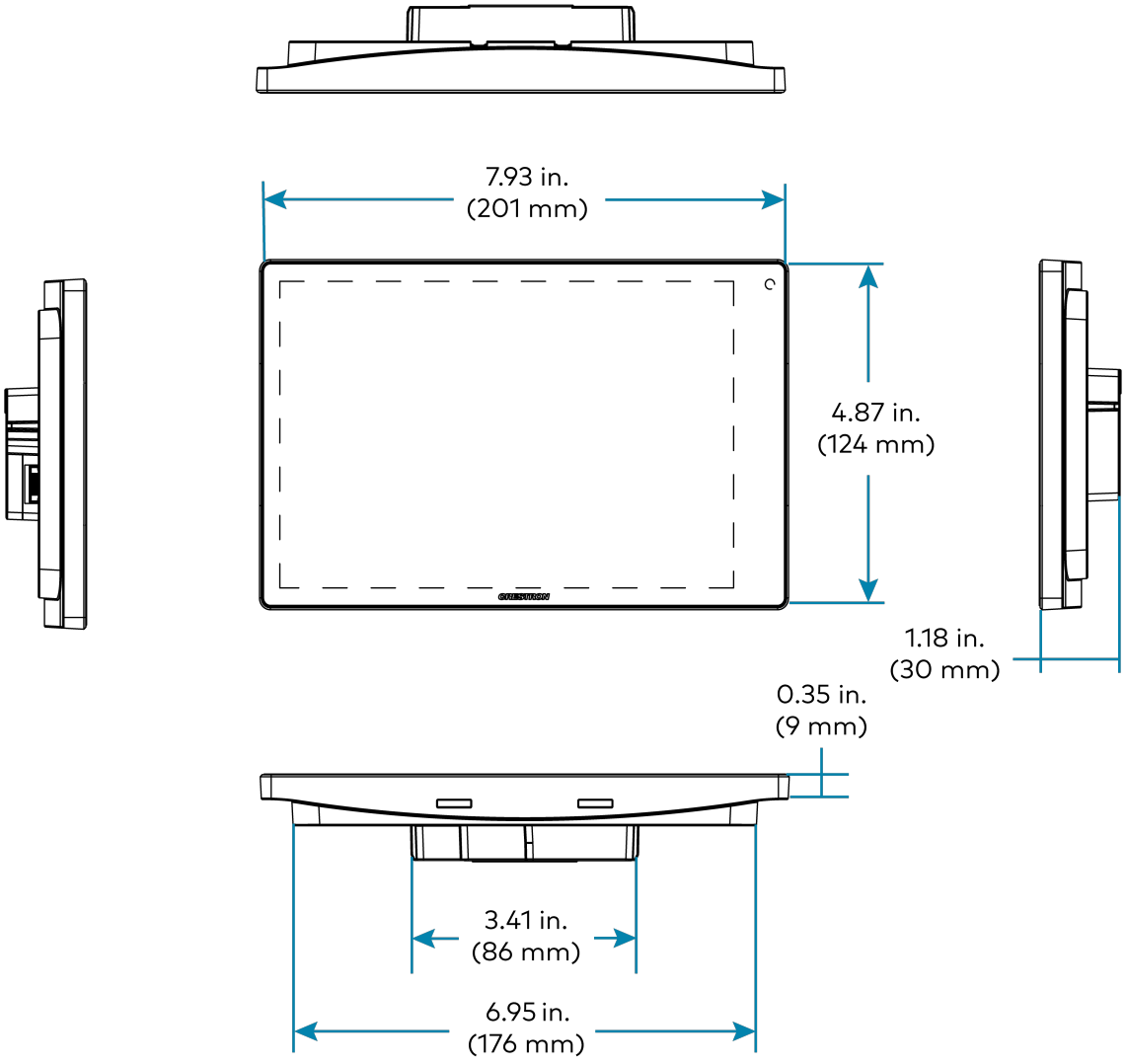
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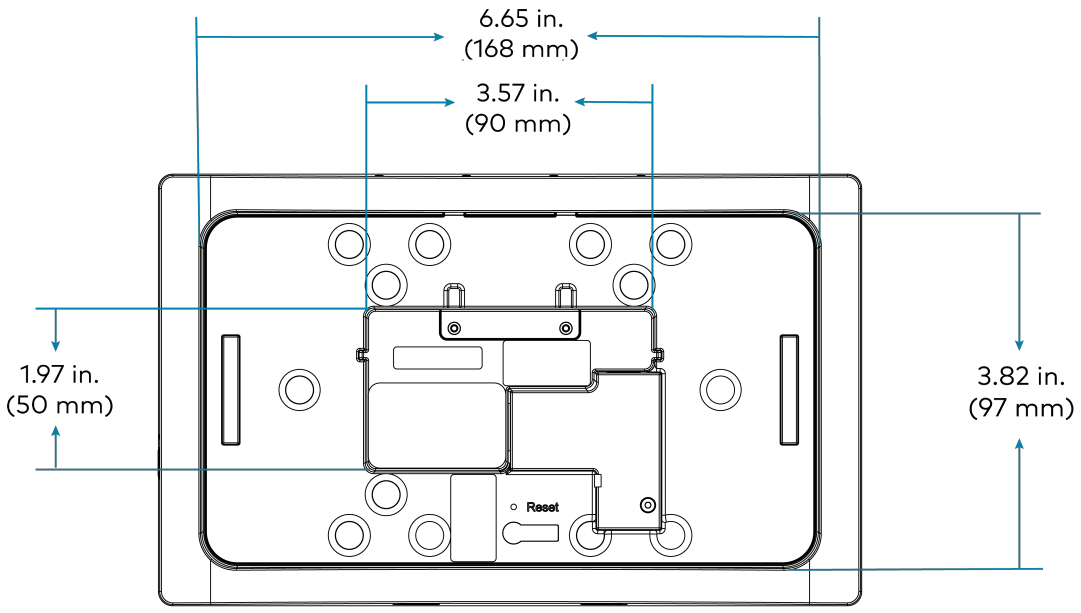
Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. The microphone and Bluetooth® transceiver may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.

4. Room scheduling mode requires the TSW-880 to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
5. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
6. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-880 as they do on a tablet device. The TSW-880 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-880.

Dimension Drawings




6.65 in.
(168 mm)
3.57 in.
(90 mm)
1.97 in.
(50 mm)
3.82 in.
(97 mm)
Reset

TSW-1080 Specifications

Product specifications for the TSW-1080 are provided below.

Product Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	10.1 in. (257 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1920 x 1200 pixels
Brightness	Minimum: 350 nits (cd/m2) Maximum: 400 nits (cd/m2)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone
Reset	(1) Pin hole on rear for hardware reset

Graphics Engine

Crestron HTML5 multilanguage web browser[1], multilanguage on-screen keyboard, screensaver, dual scalable streaming video window , native room scheduling applications [4,5,6], native Crestron Home® OS app, touch screen setup and diagnostics via web browser, cloud, or on-screen UI

Room Scheduling Support

Crestron Scheduling App	Microsoft Exchange Server® and Microsoft 365® software, Google Calendar™ calendaring app and G Suite™ software, CollegeNET® 25Live® software, and Ad Astra™ software
Third-Party Apps	Includes support for various third-party scheduling applications.[4,5,6]

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3 at compliant
USB	USB 2.0 host for room scheduling accessories

Wireless Communications

Transceiver	IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E (2.4, 5 GHz and 6GHz) 2x2 MIMO, static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA, WPA2, WPA3, WPA Enterprise and WPA2 Enterprise
Range	Up to 50 ft (15 m), subject to site-specific conditions
Bluetooth® Hardware	BLE, BT5.2, 33 ft (10 m) typical range
Radio Frequency (RF) signals	Proximity sensor (Japan): 60.5 to 61 GHz Proximity sensor (Worldwide): 61 to 61.5 GHz

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in microphone[2] and speakers, Rava® SIP Intercom

Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port; USB 3.1 DisplayPort Alt Mode (coming soon)

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1)

> **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	ABS plastic housing, smooth black or white finish, glass with black or white surround
Mounting	Surface mount over a 2 or 3-gang US electrical box, 2-gang European (DIN 49073) electrical box, or 2-gang UK (BS 4662) electrical box; Lectern mount over a 2 in. H x 3-3/4 in. W (51 mm H x 96 mm W) cutout; 1-3/8 in. (35 mm) minimum mounting depth; Wall mount, surface mount, and rack options available separately

Dimensions

Height	5.96 in. (151 mm)
Width	9.68 in. (245 mm)
Depth	1.18 in. (30 mm)

Weight

19.4 oz (550 g)

Compliance

Regulatory Model: M202404002

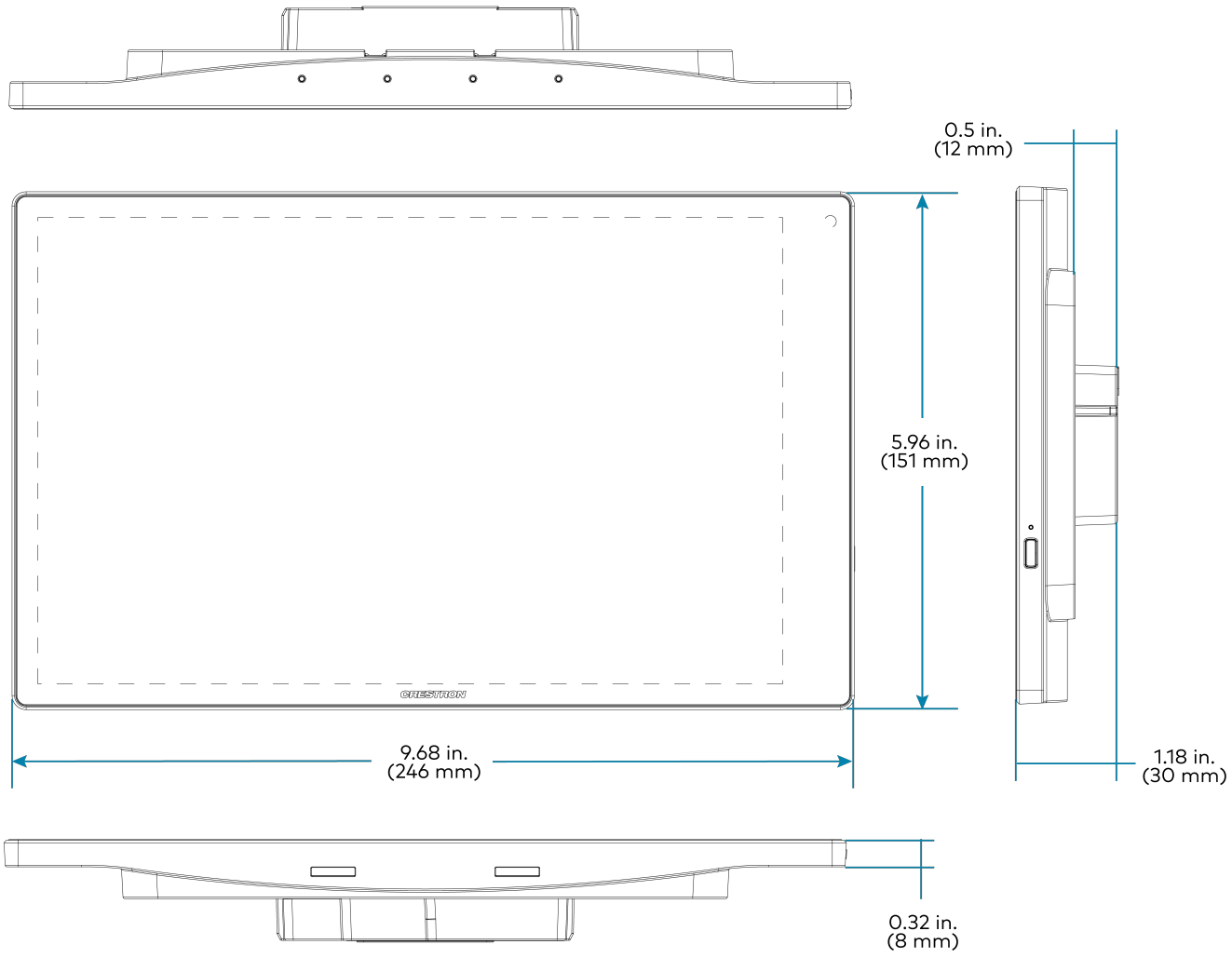
TUV Listed for the United States and Canada to UL/IEC 62368-1 safety standards. Meets CE, IC, and FCC compliance requirements

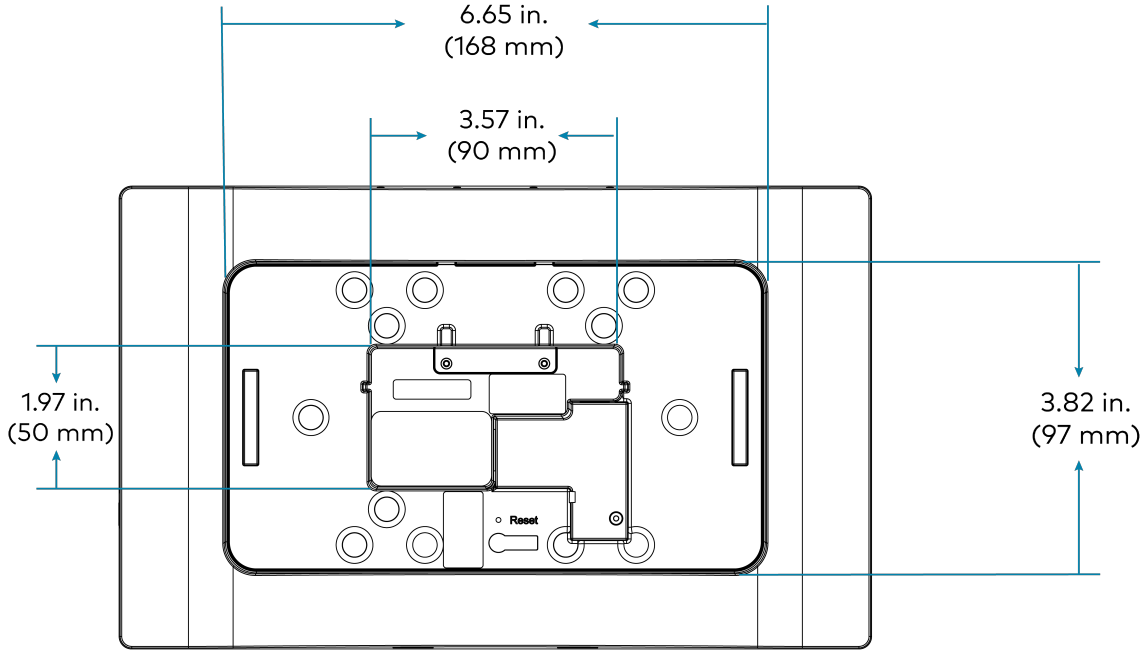
Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. The microphone and Bluetooth® transceiver may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.

4. Room scheduling mode requires the TSW-1080 to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
5. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
6. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-1080 as they do on a tablet device. The TSW-1080 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-1080.

Dimension Drawings




6.65 in.
(168 mm)
3.57 in.
(90 mm)
1.97 in.
(50 mm)
3.82 in.
(97 mm)
Reset

TSW-880-GV-B Specifications

Product specifications for the TSW-880-GV-B are provided below.

Product Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	8.1 in. (204 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1280 x 800 pixels
Brightness	Minimum: 350 nits (cd/m^2) Maximum: 400 nits (cd/m^2)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone
Reset	(1) Pin hole on rear for hardware reset

Graphics Engine

Crestron HTML5 multilanguage web browser[1], multilanguage on-screen keyboard, screensaver, dual scalable streaming video window , touch screen setup and diagnostics via web browser, cloud, or on-screen UI

Room Scheduling Support

Crestron Scheduling App	Microsoft Exchange Server® and Microsoft 365® software, Google Calendar™ calendaring app and G Suite™ software, CollegeNET® 25Live® software, and Ad Astra™ software
Third-Party Apps	Includes support for various third-party scheduling applications.[3,4,5]

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3 at compliant
USB	USB 2.0 host for room scheduling accessories

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in speakers

Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port; USB 3.1 DisplayPort Alt Mode (coming soon)

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1)

> **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	ABS plastic housing, smooth black or white finish, glass with black or white surround
Mounting	Wall mount available separately

Dimensions

Height	4.88 in. (124 mm)
Width	7.93 in. (201 mm)
Depth	1.18 in. (30 mm)

Weight

14.46 oz (410 g)

Compliance

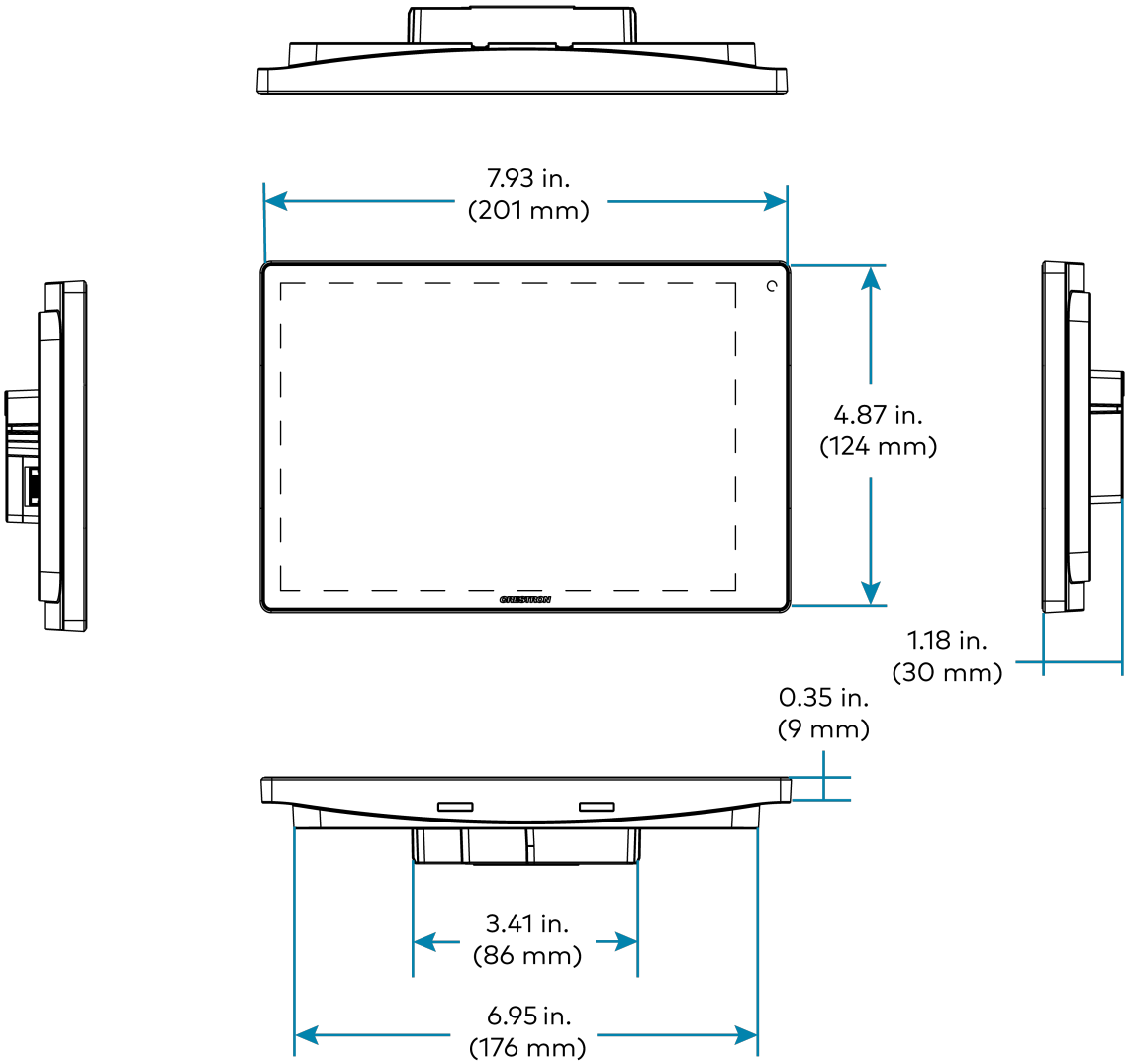
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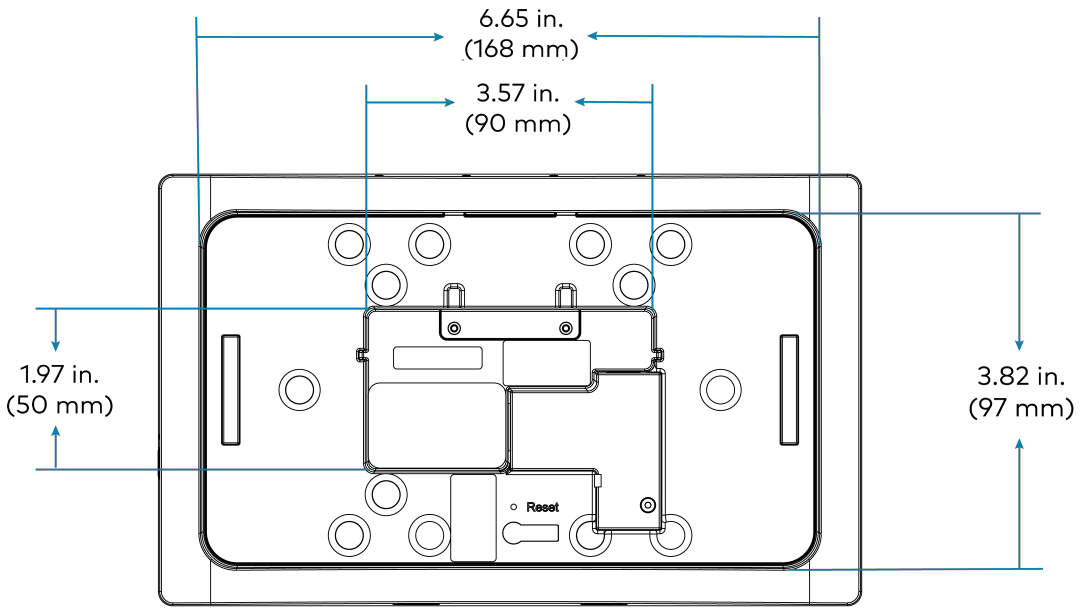
TUV Listed for the United States and Canada to UL/IEC 62368-1 safety standards. Meets CE, IC, and FCC compliance requirements

Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. Item(s) sold separately. Refer to each product's spec sheet for complete information.
3. Room scheduling mode requires the TSW-1080-GV to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
4. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
5. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-1080-GV as they do on a tablet device. The TSW-1080-GV runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-1080-GV.

Dimension Drawings




6.65 in.
(168 mm)
3.57 in.
(90 mm)
1.97 in.
(50 mm)
3.82 in.
(97 mm)
Reset

TSW-1080-GV-B Specifications

Product specifications for the TSW-1080-GV-B are provided below.

Product Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	10.1 in. (257 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1920 x 1200 pixels
Brightness	Minimum: 350 nits (cd/m^2) Maximum: 400 nits (cd/m^2)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone
Reset	(1) Pin hole on rear for hardware reset

Graphics Engine

Crestron HTML5 multilanguage web browser[1], multilanguage on-screen keyboard, screensaver, dual scalable streaming video window , touch screen setup and diagnostics via web browser, cloud, or on-screen UI

Room Scheduling Support

Crestron Scheduling App	Microsoft Exchange Server® and Microsoft 365® software, Google Calendar™ calendaring app and G Suite™ software, CollegeNET® 25Live® software, and Ad Astra™ software
Third-Party Apps	Includes support for various third-party scheduling applications.[3,4,5]

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3 at compliant
USB	USB 2.0 host for room scheduling accessories

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in speakers

Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port; USB 3.1 DisplayPort Alt Mode (coming soon)

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1)

> **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	ABS plastic housing, smooth black or white finish, glass with black or white surround
Mounting	Wall mount available separately

Dimensions

Height	5.96 in. (151 mm)
Width	9.68 in. (245 mm)
Depth	1.18 in. (30 mm)

Weight

19.4 oz (550 g)

Compliance

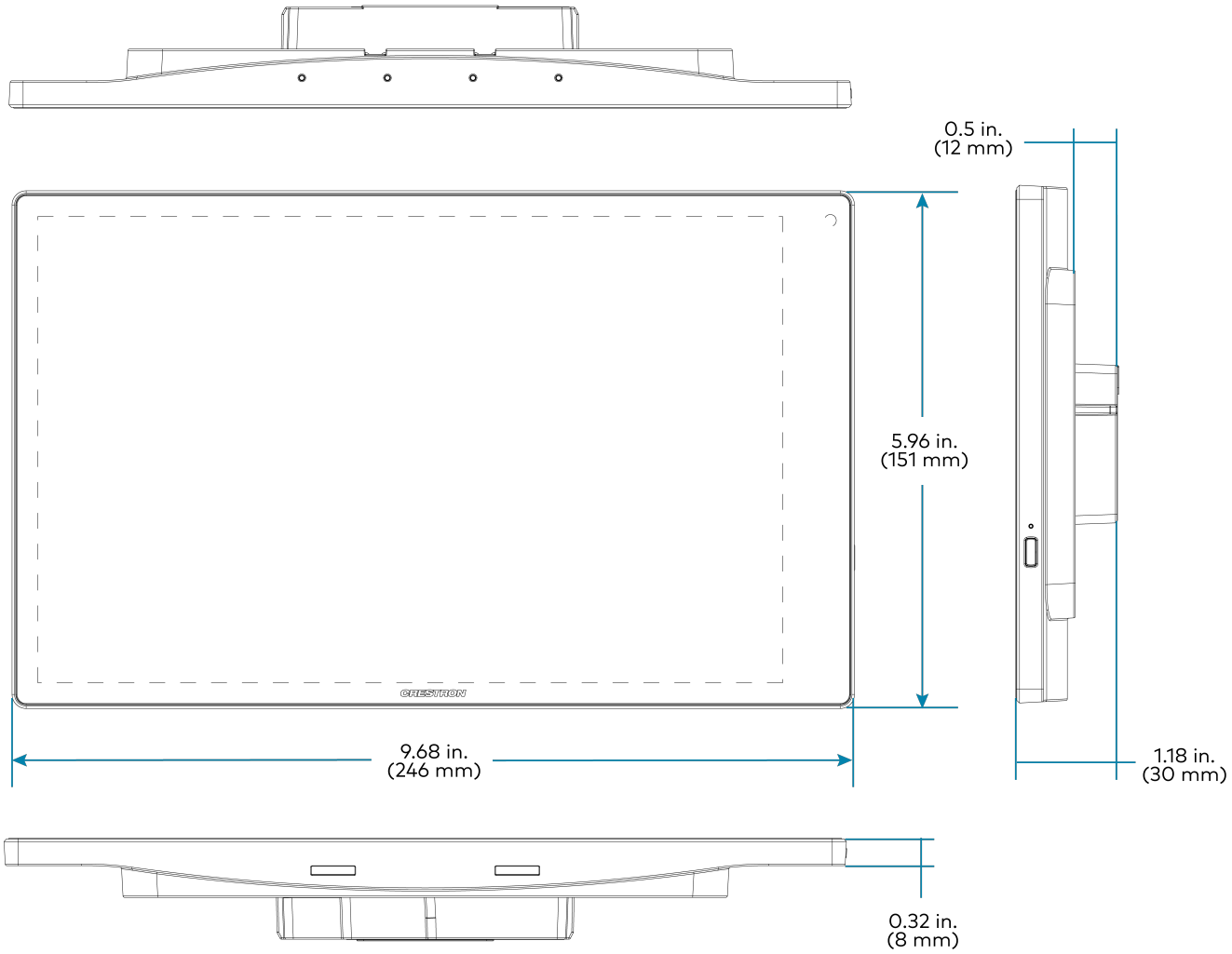
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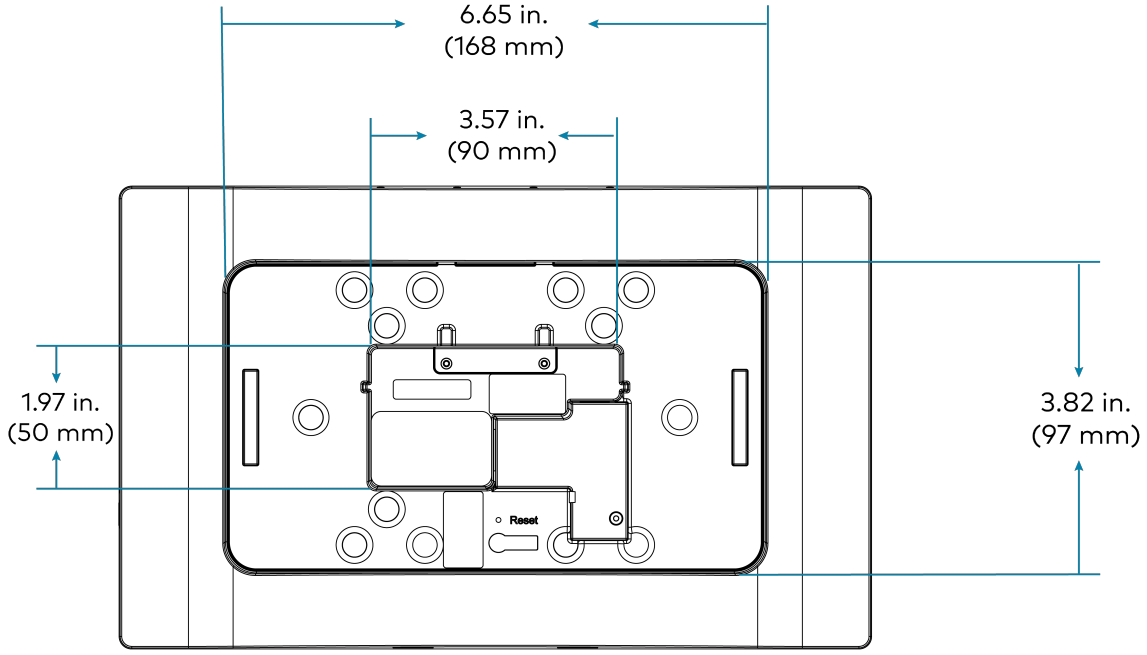
TUV Listed for the United States and Canada to UL/IEC 62368-1 safety standards. Meets CE, IC, and FCC compliance requirements

Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. Item(s) sold separately. Refer to each product's spec sheet for complete information.
3. Room scheduling mode requires the TSW-1080-GV to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
4. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
5. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-1080-GV as they do on a tablet device. The TSW-1080-GV runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-1080-GV.

Dimension Drawings




6.65 in.
(168 mm)
3.57 in.
(90 mm)
1.97 in.
(50 mm)
3.82 in.
(97 mm)
Reset

TSW-880R Specifications

Product specifications for the TSW-880R are provided below.

Product Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	8.1 in. (204 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1280 x 800 pixels
Brightness	Minimum: 350 nits (cd/m^2) Maximum: 400 nits (cd/m^2)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone
Reset	(1) Pin hole on rear for hardware reset

Graphics Engine

Dual scalable streaming video window , native Crestron Home® OS app, touch screen setup and diagnostics via web browser, cloud, or on-screen UI, Crestron Home setup and diagnostics via Crestron Home Setup app

Languages

Onscreen Keyboard	Arabic, Chinese (Simplified), Croatian, Czech, Danish, Dutch, English (UK), English (US), Finnish, French (Canada), French (Switzerland), German, Hebrew, Hungarian, Italian, Japanese, Norwegian Bokmal, Polish, Portuguese, Russian, Serbian, Spanish, Swedish, Turkish

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, IEEE 802.3 at compliant
USB	USB 2.0 host

Wireless Communications

Transceiver	IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E (2.4, 5 GHz and 6GHz) 2x2 MIMO, static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA, WPA2, WPA3, WPA Enterprise and WPA2 Enterprise
Range	Up to 50 ft (15 m), subject to site-specific conditions
Bluetooth® Hardware	BLE, BT5.2, 33 ft (10 m) typical range
Radio Frequency (RF) signals	Proximity sensor (Japan): 60.5 to 61 GHz Proximity sensor (Worldwide): 61 to 61.5 GHz

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in microphone and speakers, Rava® SIP Intercom

Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port USB 3.1 DisplayPort Alt Mode (coming soon)

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1)

> **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	ABS plastic housing, smooth black or white finish, glass with black or white surround
Mounting	Surface mount over a 2 or 3-gang US electrical box, 2-gang European (DIN 49073) electrical box, or 2-gang UK (BS 4662) electrical box; Lectern mount over a 2 in. H x 3-3/4 in. W (51 mm H x 96 mm W) cutout; 1-3/8 in. (35 mm) minimum mounting depth; Wall mount available separately

Dimensions

Height	4.88 in. (124 mm)
Width	7.93 in. (201 mm)
Depth	1.18 in. (30 mm)

Weight

14.46 oz (410 g)

Compliance

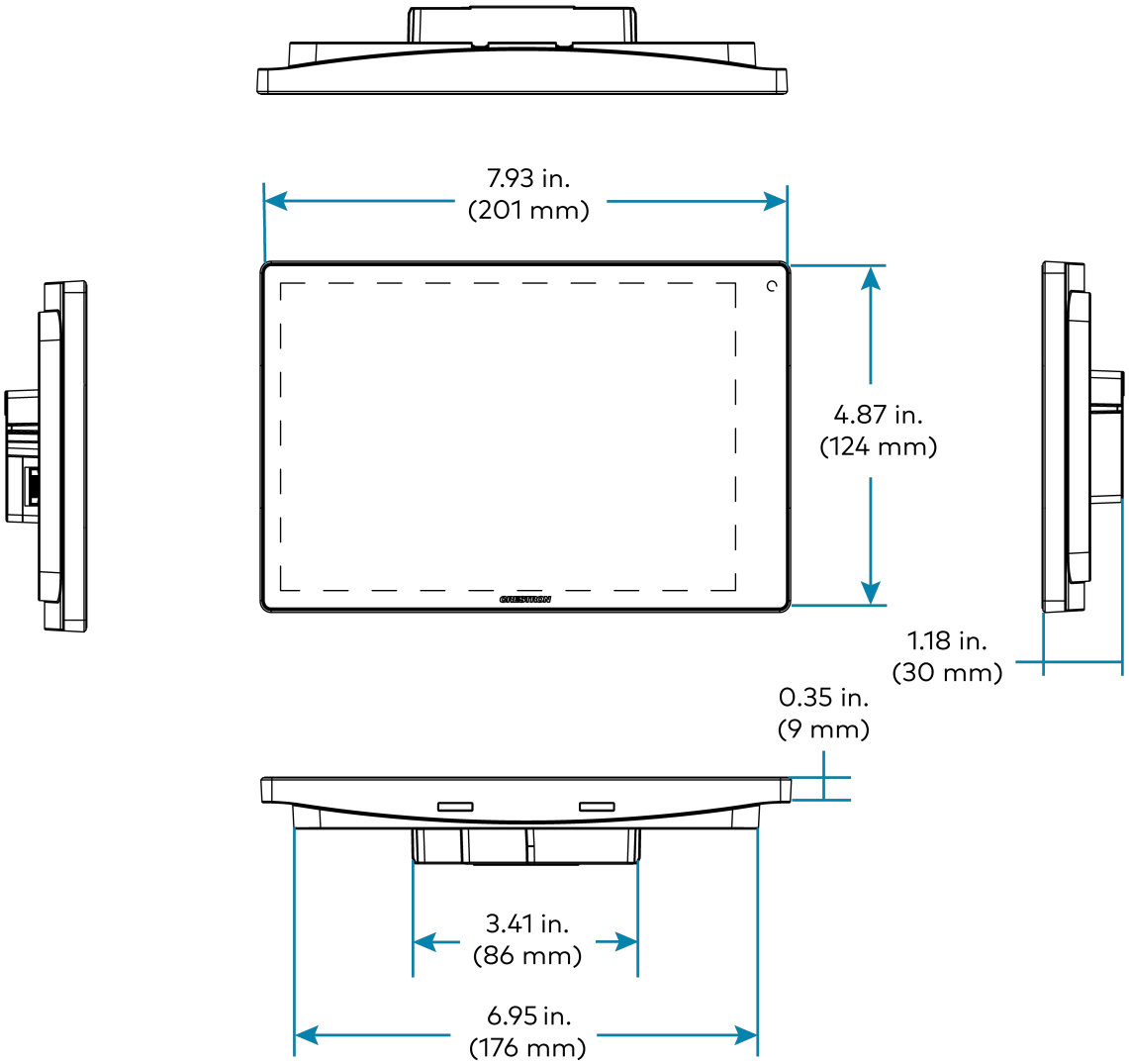
Regulatory Model: M202404001

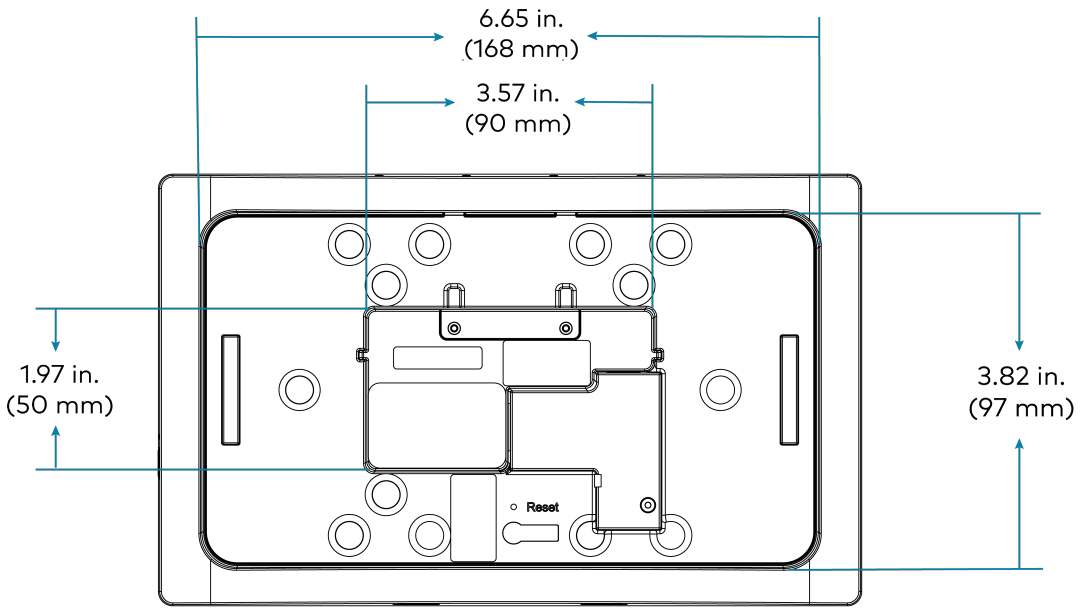
TUV Listed for the United States and Canada to UL/IEC 62368-1 safety standards. Meets CE, IC, and FCC compliance requirements

Notes:

1. Certain other functions require an internet connection.
2. The microphone may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.

Dimension Drawings




6.65 in.
(168 mm)
3.57 in.
(90 mm)
1.97 in.
(50 mm)
3.82 in.
(97 mm)
Reset

TSW-1080R Specifications

Product specifications for the TSW-1080R are provided below.

Product Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	10.1 in. (257 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1920 x 1200 pixels
Brightness	Minimum: 350 nits (cd/m^2) Maximum: 400 nits (cd/m^2)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone
Reset	(1) Pin hole on rear for hardware reset

Graphics Engine

Dual scalable streaming video window , native Crestron Home® OS app, touch screen setup and diagnostics via web browser, cloud, or on-screen UI, Crestron Home setup and diagnostics via Crestron Home Setup app

Languages

Onscreen Keyboard	Arabic, Chinese (Simplified), Croatian, Czech, Danish, Dutch, English (UK), English (US), Finnish, French (Canada), French (Switzerland), German, Hebrew, Hungarian, Italian, Japanese, Norwegian Bokmal, Polish, Portuguese, Russian, Serbian, Spanish, Swedish, Turkish

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, IEEE 802.3 at compliant
USB	USB 2.0 host

Wireless Communications

Transceiver	IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E (2.4, 5 GHz and 6GHz) 2x2 MIMO, static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA, WPA2, WPA3, WPA Enterprise and WPA2 Enterprise
Range	Up to 50 ft (15 m), subject to site-specific conditions
Bluetooth® Hardware	BLE, BT5.2, 33 ft (10 m) typical range
Radio Frequency (RF) signals	Proximity sensor (Japan): 60.5 to 61 GHz Proximity sensor (Worldwide): 61 to 61.5 GHz

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in microphone and speakers, Rava® SIP Intercom

Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port USB 3.1 DisplayPort Alt Mode (coming soon)

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1)

> **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	ABS plastic housing, smooth black or white finish, glass with black or white surround
Mounting	Surface mount over a 2 or 3-gang US electrical box, 2-gang European (DIN 49073) electrical box, or 2-gang UK (BS 4662) electrical box; Lectern mount over a 2 in. H x 3-3/4 in. W (51 mm H x 96 mm W) cutout; 1-3/8 in. (35 mm) minimum mounting depth; Wall mount available separately

Dimensions

Height	5.96 in. (151 mm)
Width	9.68 in. (245 mm)
Depth	1.18 in. (30 mm)

Weight

19.4 oz (550 g)

Compliance

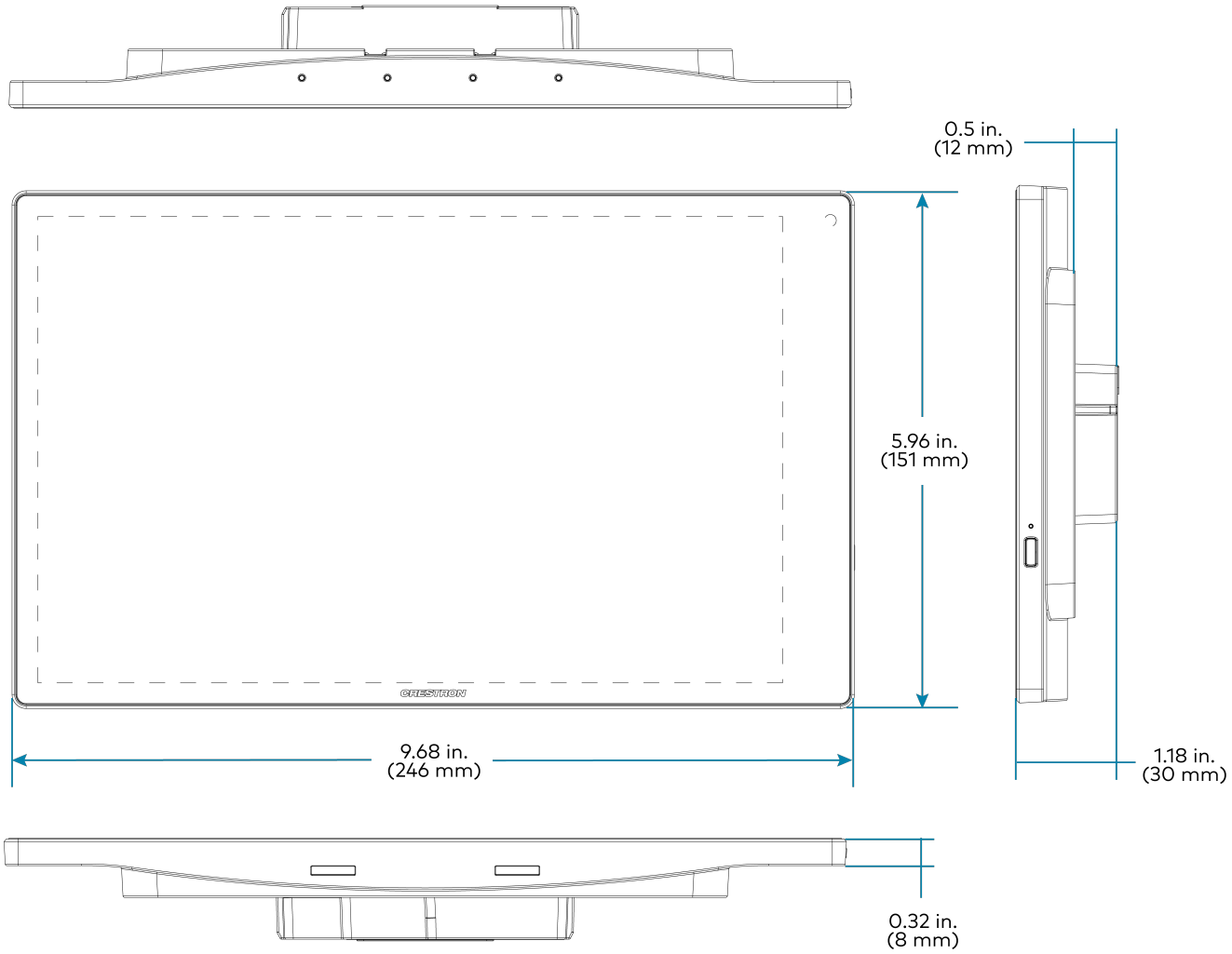
Regulatory Model: M202404002

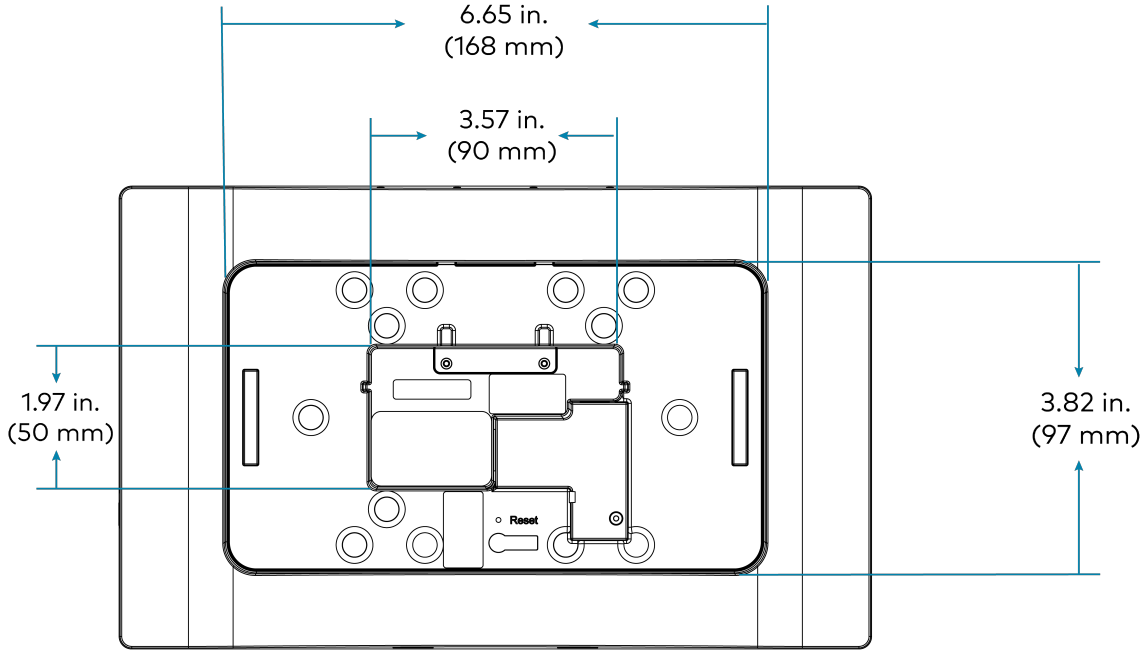
TUV Listed for the United States and Canada to UL/IEC 62368-1 safety standards. Meets CE, IC, and FCC compliance requirements

Notes:

1. Certain other functions require an internet connection.
2. The microphone may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.

Dimension Drawings




6.65 in.
(168 mm)
3.57 in.
(90 mm)
1.97 in.
(50 mm)
3.82 in.
(97 mm)
Reset

TSW-1580 Specifications

Product specifications for the TSW-1580 are provided below.

Product Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	15 in. (381 mm) diagonal
Aspect Ratio	16:9 WXGA
Resolution	1920 x 1080 pixels
Brightness	Minimum: 350 nits (cd/m2) Maximum: 400 nits (cd/m2)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone
Reset	(1) Pin hole on rear for hardware reset

Graphics Engine

Crestron HTML5 multilanguage web browser[1], multilanguage on-screen keyboard, screensaver, dual scalable streaming video window , native room scheduling applications [4,5,6], native Crestron Home® OS app, touch screen setup and diagnostics via web browser, cloud, or on-screen UI

Room Scheduling Support

Crestron Scheduling App	Microsoft Exchange Server® and Microsoft 365® software, Google Calendar™ calendaring app and G Suite™ software, CollegeNET® 25Live® software, and Ad Astra™ software
Third-Party Apps	Includes support for various third-party scheduling applications.[3,4,5]

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3 at compliant
USB	USB 2.0 host for room scheduling accessories or for presentation and conferencing with compatible UC systems.

Wireless Communications

Transceiver	IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E (2.4, 5 GHz and 6GHz) 2x2 MIMO, static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA, WPA2, WPA3, WPA Enterprise and WPA2 Enterprise
Range	Up to 50 ft (15 m), subject to site-specific conditions
Bluetooth® Hardware	BLE, BT5.2, 33 ft (10 m) typical range
Radio Frequency (RF) signals	Proximity sensor (Japan): 60.5 to 61 GHz Proximity sensor (Worldwide): 61 to 61.5 GHz

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in microphone and speakers, Rava® SIP Intercom

Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port USB 3.1 DisplayPort Alt Mode (coming soon)

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	ABS plastic housing, smooth black or white finish, glass with black or white surround
Mounting	Wall mount and table mount available separately

Dimensions

Height	9.23 in. (234 mm)
Width	15.15 in. (385 mm)
Depth	1.18 in. (30 mm)

Weight

3.85 lb (61.6 oz)

Compliance

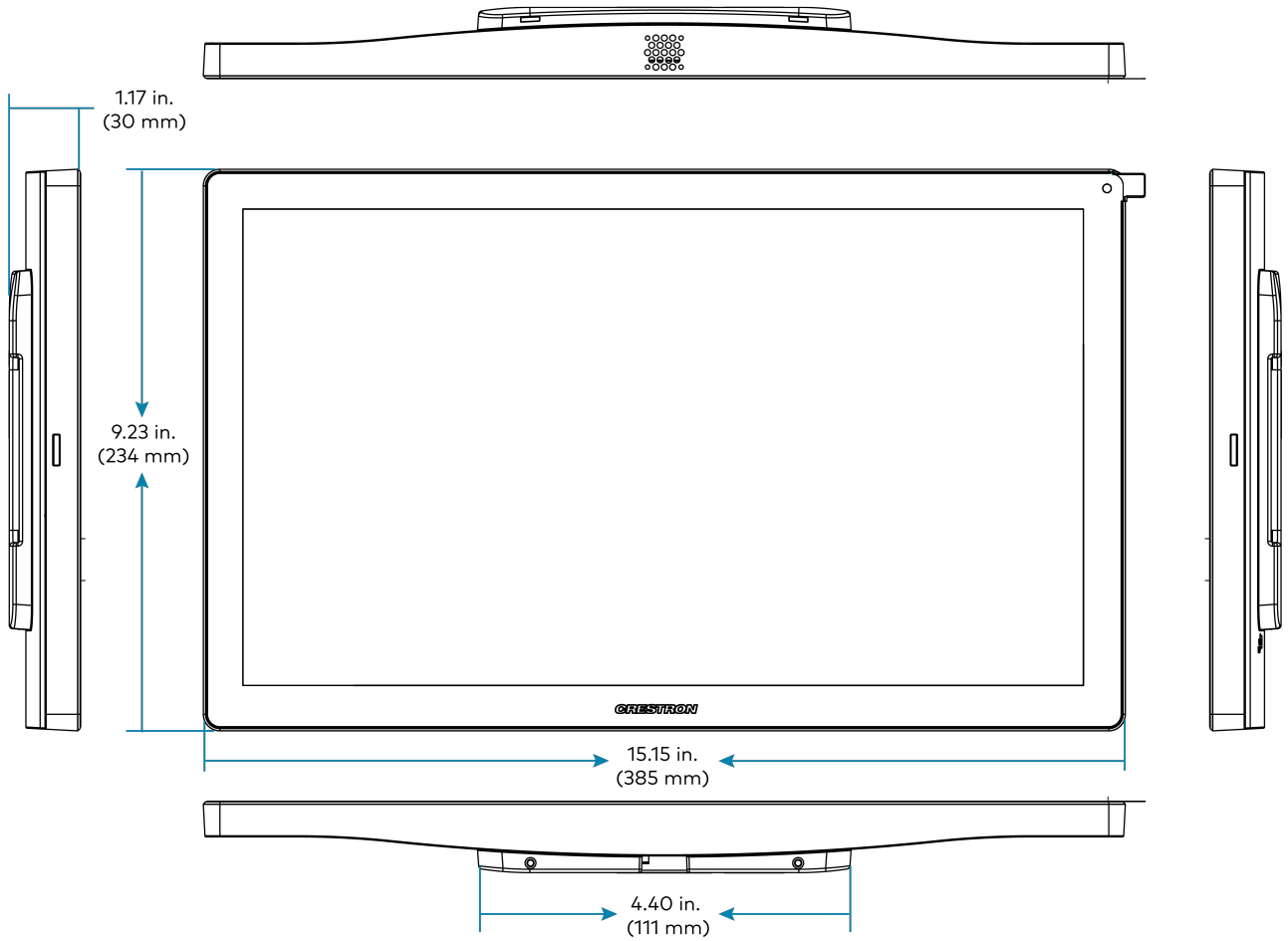
Regulatory Model: M202404008

TUV Listed for the United States and Canada to UL/IEC 62368-1 safety standards. Meets CE, IC, and FCC compliance requirements

Notes:

1. The microphone and Bluetooth® transceiver may be defeated programmatically at any time.
2. Item(s) sold separately. Refer to each product's spec sheet for complete information.
3. Room scheduling mode requires the TSW-1580 to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
4. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
5. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-1580 as they do on a tablet device. The TSW-1580 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-1580.
6. Web browsing, weather information, and certain other functions require an internet connection.

Dimension Drawings



Getting Started

This section provides structured entry points for initial use of the touch screen. Refer to the below sections for more information on out of the box set up, installation, or web and local configuration.

Installation

For information on installing the touch screen and its mounting accessories, refer to Installation on page 75.

Initial Setup

For information on setting up the touch screen before use, refer to Initial Setup on page 139.

Web Configuration

For information on configuring the touch screen via its web configuration interface, refer to Web Configuration on page 148.

Local Configuration

For information on configurations using the touch screen display, refer to Local Configuration on page 193.

Installation

This section provides the following information:

- TSW-880 and TSW-1080 Installation
- TSW-1580 Installation
- TSW-880-1080-MSMK-ANG Installation
- TSW-880/1080-MSMK Installation
- TSW-880-1080-MUMK Installation
- TSW-UMB-80 Installation
- TSW-UMB-80-BBI Installation
- TSW-UMB-U-PMK Installation
- TSW-RMB Installation
- TSW-RMK Installation
- TSW-1580-TTK Installation
- TSW-1580-WMK Installation

TSW-880 and TSW-1080 Installation

Use the following procedures to install the touch screen.

In the Box

Qty.	Description
1	TSW-1080, Wall Mounted Touch Screen
	Additional Items
1	Wall Mounting Bracket, Metal, 880/1080 (2063955)
1	Security Bracket, Metal, x80 Series (2063966)
1	Security Bracket Key, Metal, x80 Series (2063967)
2	Screw, M2 x 0.4, 4 mm (2055454)
2	Screw, Flat, M3.5 x 25 mm (2023756)
4	Screw, Phillips, 3 x 16 mm (2013788)
4	Screw, Flat, 6-32 x 3/4 in. (2033247)
4	Wall Anchor, Plastic (2035879)
4	Screw, Flat Head, 6-AB x 1 in. (2056874)

Install the Mounting Bracket

The touch screen installs over a standard 2-gang or 3-gang U.S. electrical box, a 2-gang European electrical box, or a 2-gang U.K. electrical box. The touch screen also installs into drywall.

Notes:

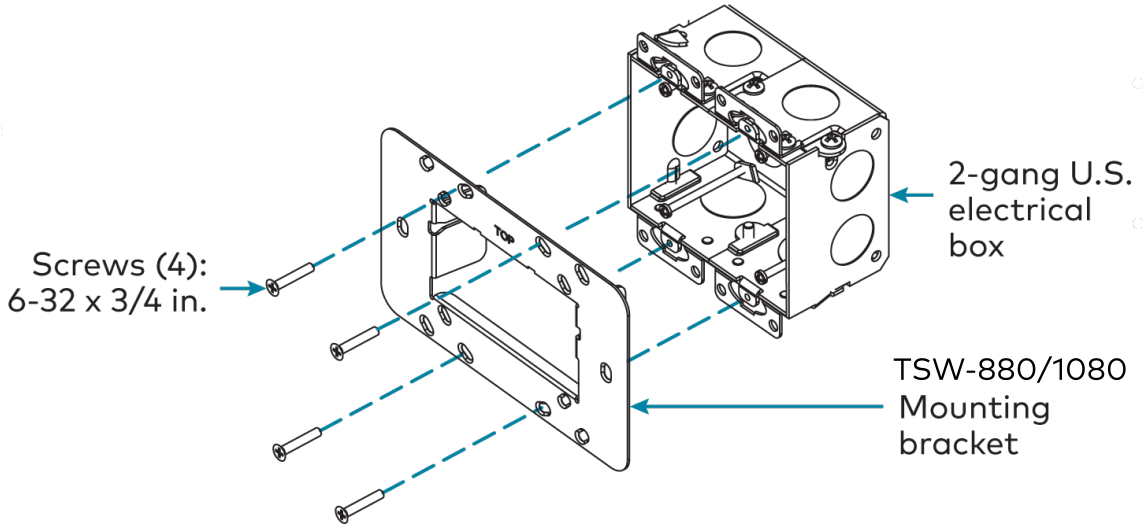
- Additional mounting options are possible using the following mounting accessories. For more information, refer to the product pages at www.crestron.com.
  - TSW-UMB-80 universal mounting bracket
  - TSW-UMB-U-PMK preconstruction mounting kit
  - TSW-UMB-80-BBI wall mount back box
  - TSW-880/1080-MSMK series multisurface mounting kits
  - TSW-880/1080-MSMK-ANG series angled multisurface mount kits
  - TSW-880/1080-MUMK mullion mounting kit
- Installing the mounting bracket to an electrical box is required only if one of the mounting solutions above is not used.

Electrical Box Mounting

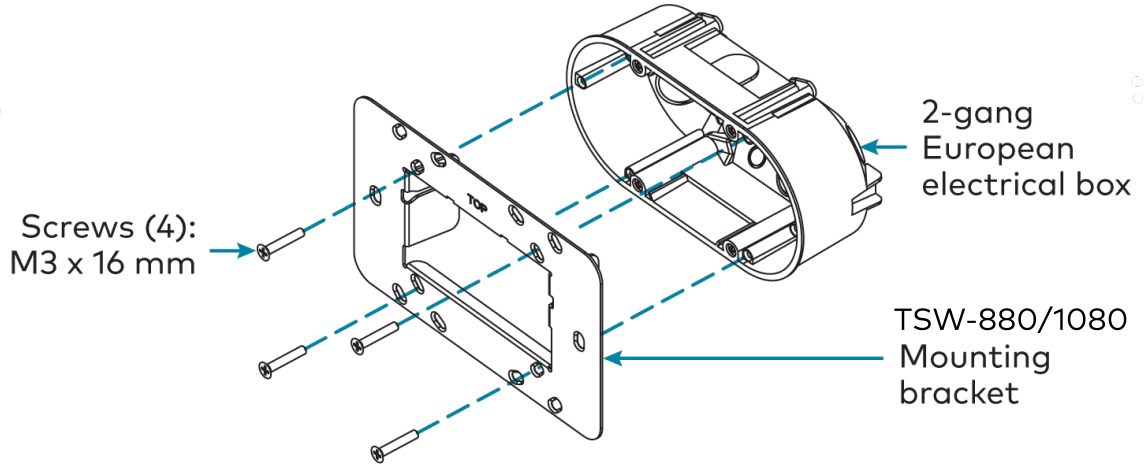
To mount the touch screen into an electrical box, use the appropriate screws (four 6-32 x 3/4 in. screws, four M3 x 16 mm screws, or two M3.5 x 25 mm screws) to attach the mounting bracket to the electrical box.

> **Note:** For U.S. installations, use a #2 Phillips screwdriver. For European or U.K. installations, use a #1 Phillips screwdriver.

For U.S. installations, use the four 6-32 x 3/4 in. screws:



For European installations, use the four M3 x 16 mm screws:



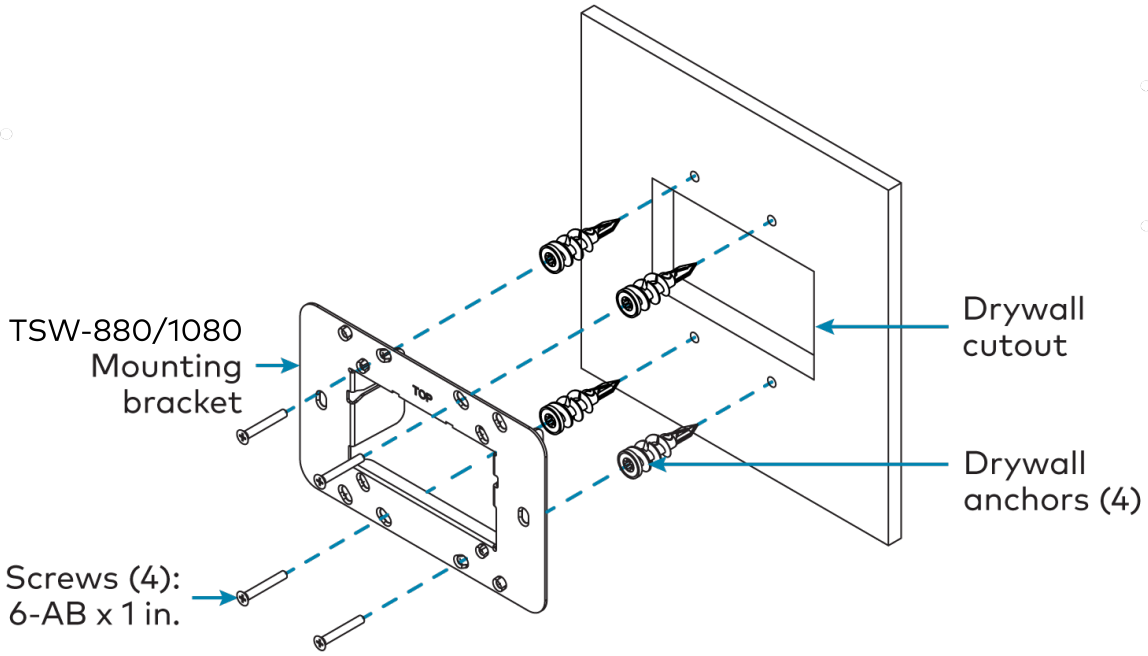
For U.K. installations, use the two M3.5 x 25 mm screws to attach the mounting bracket to the electrical box. Insert the screws through the center openings in the left and right sides of the mounting bracket.

Drywall Mounting

Mounting hardware is provided with the touch screen for drywall installations without an electrical box. Using this hardware will ensure that the bracket is completely flush with the touch screen to provide maximum magnetic force.

To install the mounting bracket into drywall:

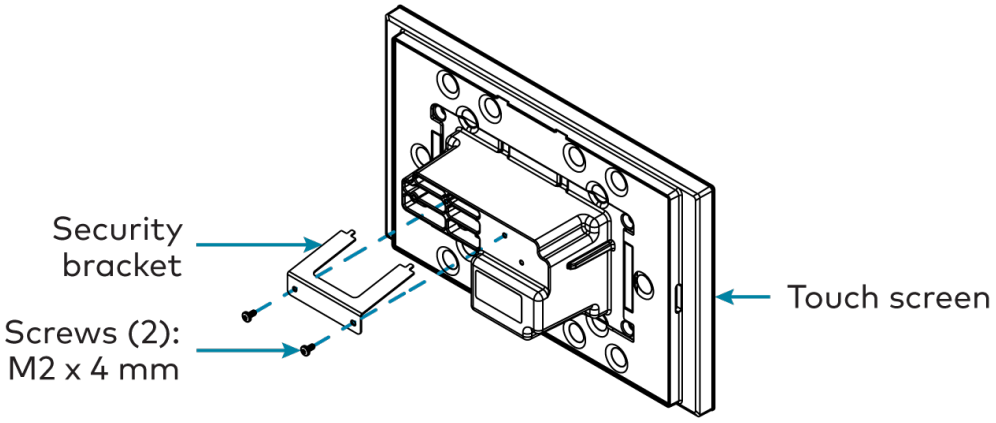
1. Using the inside of the mounting bracket as a template, cut a 2-1/8 x 3-5/8 in. (54 x 92 mm) hole into the drywall. Ensure the template is level prior to cutting the hole.
2. Align the mounting bracket with the cutout and ensure it is level.
3. Use one of the anchors to make a center mark in the drywall through the four 2-gang openings in the template. Refer to the image below for the required mounting holes.
4. Screw the four anchors into the drywall using the center marks as a reference.
5. Attach the mounting bracket to the anchors using the four 6-AB x 1 in. screws as shown in the image below.



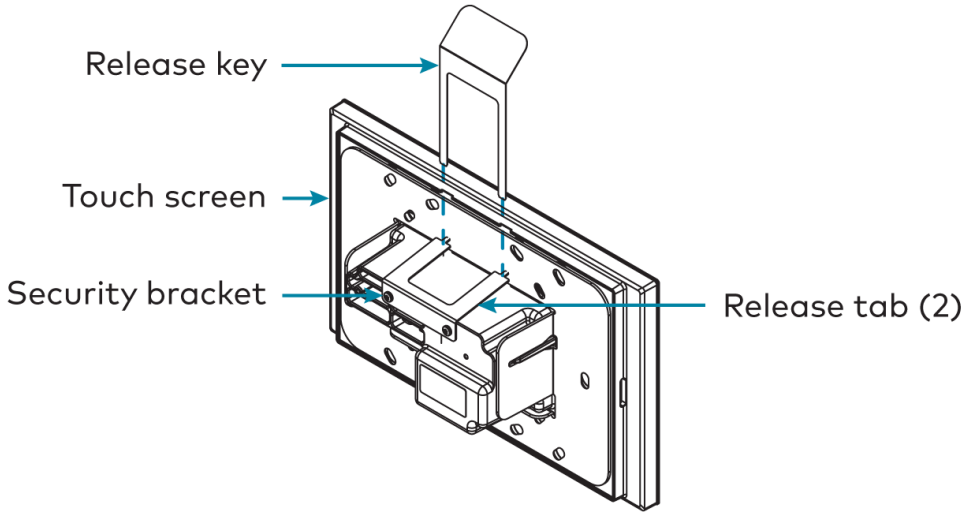
Install the Security Bracket (Optional)

The included security bracket may be attached to the touch screen to prevent unauthorized removal after installation. The security bracket snaps into place behind the mounting bracket so that the touch screen cannot be removed without using the included release key.

Use the two M2 x 4 mm screws to attach the security bracket to the touch screen rear housing.

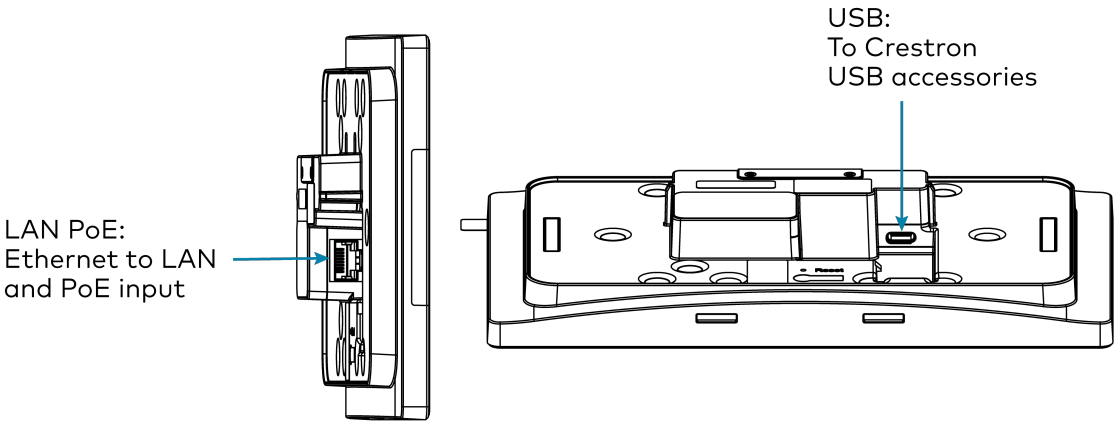


To remove the touch screen after installation, use the included release key to push down on the security bracket release tabs as shown in the following illustration while gently pulling the touch screen away from the mounting bracket.



Connect the Touch Screen

Route all necessary cables through the rear of the mounting bracket, and then make connections to the side of the touch screen rear housing.



Observe the following when connecting the touch screen:

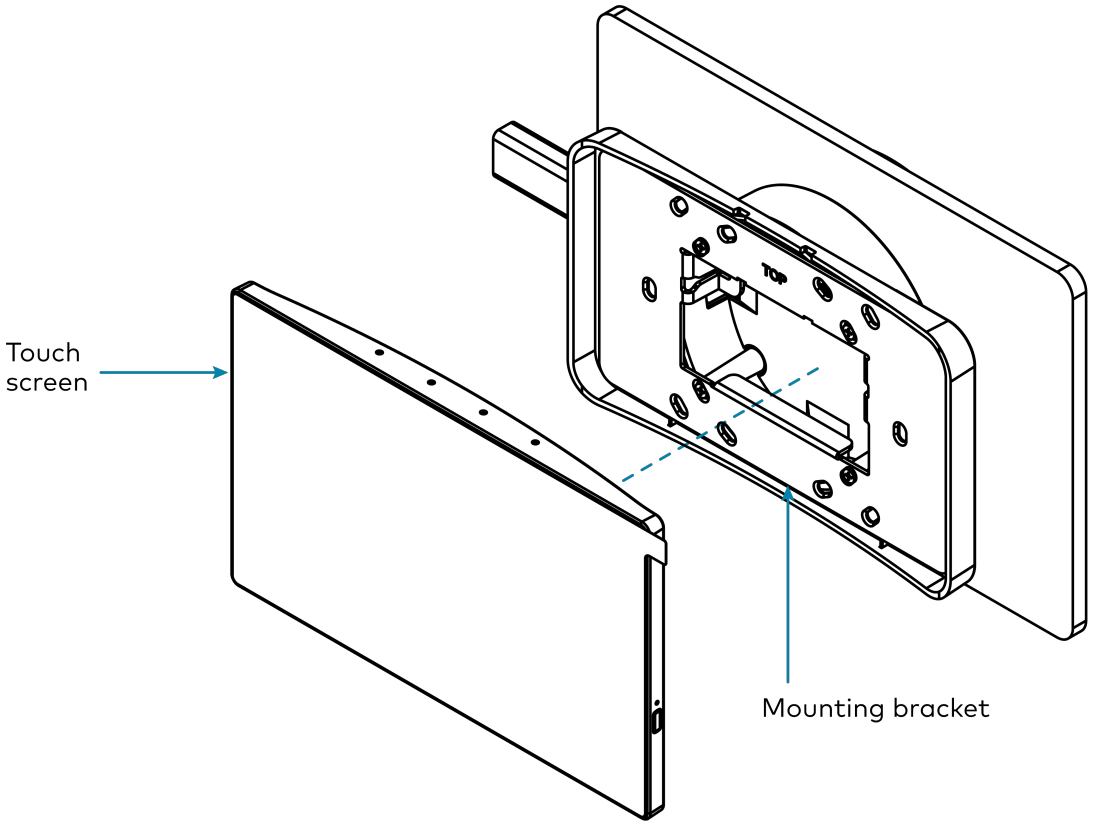
- Power and data connection is provided to the touch screen by a single Ethernet cable. A Crestron PoE (Power over Ethernet) power supply or a PoE-capable network switch is recommended (neither included). Refer to the full list of supported PoE switches here.
- The USB ports are used to connect compatible Crestron LED accessories to the touch screen.

  > **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

- Apply power after all connections have been made.

Mount the Touch Screen

After all connections have been made, push the touch screen gently into the mounting bracket so that its rear housing is secured within the center opening of the mounting bracket.



If the touch screen is not level after installation, pull it out of the mounting bracket and loosen the screws holding the bracket into place. This procedure allows the mounting bracket to be rotated slightly. Once the mounting bracket has been repositioned, tighten the screws, reinstall the touch screen into the bracket, and ensure that the touch screen is now level.

> **NOTE:** To clean or disinfect a touch screen display, use a soft, clean, damp (not wet) cloth with any commercially available non-ammonia glass cleaner or disinfectant cleaner. Bezels do not provide a complete watertight seal, so apply cleaning solution to the cloth rather than the surface of the touch screen. Wipe the touch screen clean and avoid ingress of moisture beneath the bezels.

TSW-1580 Installation

Use the following procedures to install the touch screen.

In the Box

Qty.	Description
1	TSW-1580, 15 in. Wall Mounted Touch Screen

Mount the Touch Screen

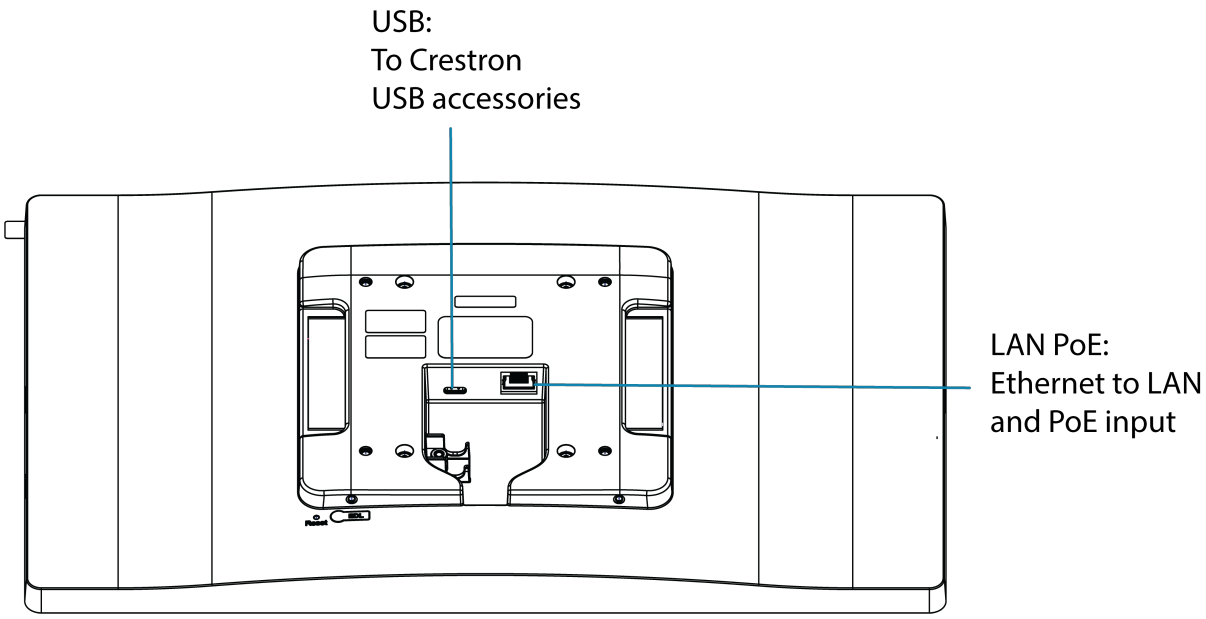
Carefully place the TSW-1580 face down on a clean, nonabrasive surface to install mounting accessories. The TSW-1580 supports a standard VESA 100 mm mounting flange pattern (mount sold separately) or the following mounting solutions (not included):

- The TSW-1580-TTK provides a solution for applications where the touch screen will be mounted onto a tabletop or similar surface.
- The TSW-1580-WMK provides a solution for postconstruction applications where a back box will be installed into drywall, paneling, or a tabletop.

NOTE: To clean or disinfect a touch screen display, use a soft, clean, damp (not wet) cloth with any commercially available non-ammonia glass cleaner or disinfectant cleaner. Bezels do not provide a complete watertight seal, so apply cleaning solution to the cloth rather than the surface of the touch screen. Wipe the touch screen clean and avoid ingress of moisture beneath the bezels.

Connect the Touch Screen

Route all necessary cables through the rear of the mounting bracket or arm (sold separately), and then make connections to the side of the touch screen rear housing.



Observe the following when connecting the touch screen:

- Power and data connection is provided to the touch screen by a single Ethernet cable. A Crestron PoE (Power over Ethernet) power supply or a PoE-capable network switch is recommended (neither included). Refer to the full list of supported PoE switches here.
- The USB ports are used to connect compatible Crestron LED accessories to the touch screen.

  > **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

- Apply power after all connections have been made.

TSW-880-1080-MSMK-ANG Installation

The TSW-880/1080-MSMK-ANG provides the touch screen with the capability to be mounted directly to glass, granite, marble, wood paneling, plaster, smooth masonry, or virtually any other flat surface.

In the Box

Qty.	Description
1	TSW-880/1080-MSMK-ANG, Angled Multisurface Mount Kit for TSW-880 and TSW-1080 Series
	Additional Items
1	Angled Bracket, Plastic Assembly (4537760)
2	Screw, 6-32 x 3/8 in. (2013475)
2	Screw, 6-32 x 3/4 in. (2033247)
4	Screw, 6-32 x 1 in. (2007251)
6	Screw, 6-32 x 1/2 in. (2007240)
4	Screw, M3 x 25 mm (2049589)
2	Screw, M3.5 x 25 mm (2049591)
4	Washer, #6 (2007663)

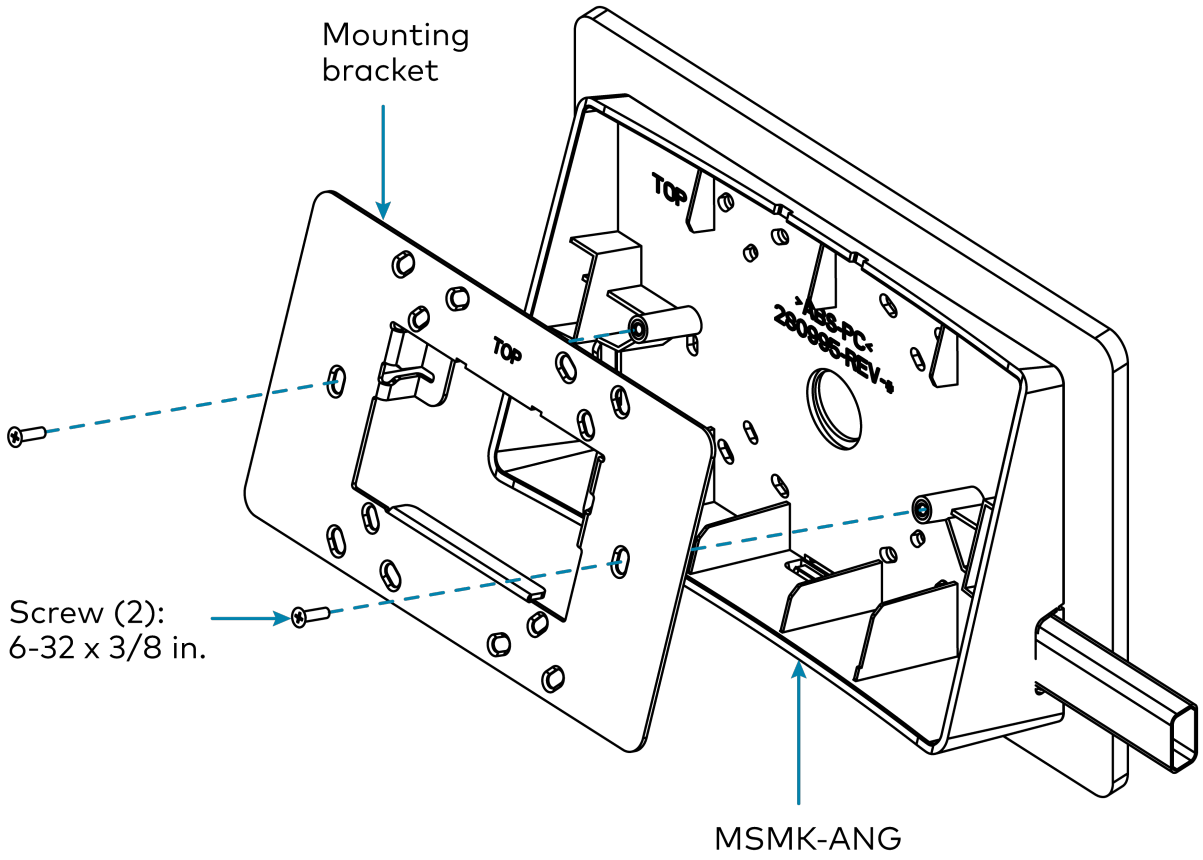
TSW-880/1080-MSMK-ANG Mounting Instructions

The TSW-880/1080-MSMK-ANG can be installed over an electrical box, into drywall, or onto a flat, smooth surface. Procedures for each installation are provided in the sections that follow.

Drywall Mounting

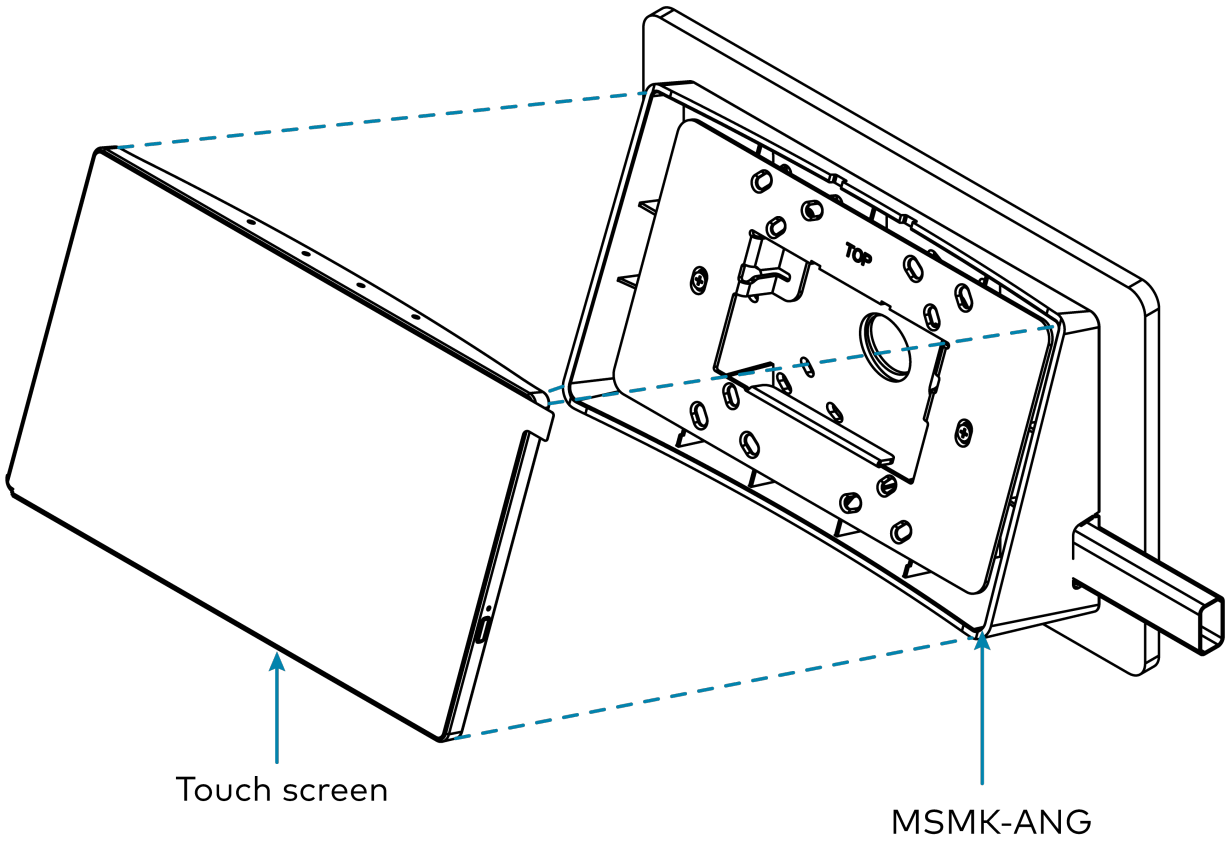
1. Choose a mounting location that is free of any wiring, studs, or other obstructions. Make a small hole in the surface near the center of the chosen location to verify that it is suitable for mounting.
2. Create a cutout in the drywall where the touch screen will be installed for routing cables.
3. Route all necessary cables through the drywall cutout.
4. Attach the MSMK-ANG to the drywall surface using four standard dry wall anchors and 6-AB x 1 in. drywall screws (not included).

5. Attach the TSW-80 mounting bracket (provided with the touch screen) to the angled bracket using the two provided 6-32 x 3/8 in. screws. Ensure the bracket is level after installation. Refer to TSW-880 and TSW-1080 Installation on page 76 for more information.



6. Route all cables out of the center opening in the angled bracket and connect them to the rear of the touch screen.

7. After all connections have been made, hold the touch screen over the mounting plate and place it gently in position so that it attaches securely to the plate.



Surface Mounting

Use the following procedures to mount the MSMK onto a flat pane of glass or a similar smooth surface (such as granite, marble, plaster, or smooth stone and masonry).

CAUTION: Observe the following points to ensure the MSMK-ANG properly bonds to the mounting surface. Failure to properly bond the MSMK-ANG to the mounting surface could cause it to detach after installation.

- Use isopropyl alcohol (minimum 70%) to clean the mounting surface. Other surface cleaning products can leave a film that will prevent the adhesive from properly bonding to the mounting surface.
- Use a new, clean nonlinting cloth to apply the isopropyl alcohol. The cloth should not have been used with any other cleaning product to ensure that it does not leave a film on the mounting surface.
- Allow the isopropyl alcohol to air dry on the mounting surface for at least one minute before applying adhesive. Do not dry the surface with a cloth prior to applying adhesive.
- Do not apply adhesive to the mounting surface in temperatures below 65°F (19°C).

- When mounting on glass surface, make sure the glass does not have any coating or film application.

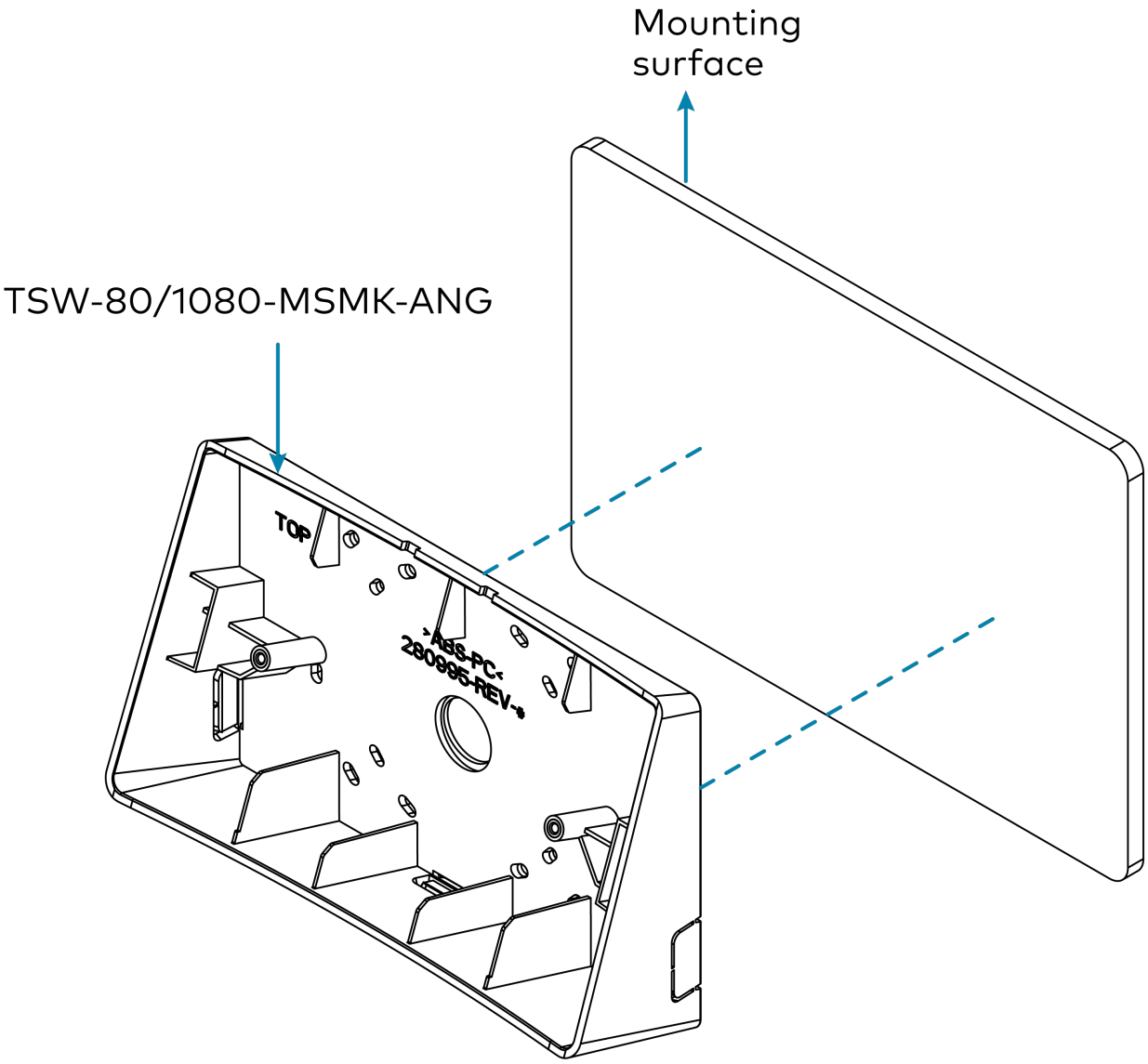
NOTE: The following is not included and required for this installation: a level, masking tape, a Phillips screwdriver, and isoprophyl alcohol.

1. Select a mounting location for the MSMK and determine whether the raceway (not included) will be entering the MSMK from the top, bottom, left, or right cutout.
2. Use pliers (or a similar tool) to break away the appropriate knockout on the left, right, or bottom of the angled bracket for running cables to the touch screen.
3. Clean and dry the mounting surface thoroughly.
4. Using the level, tape a horizontal reference line on the glass surface that aligns with the lower edge of the angled bracket. Ensure the reference line is level before proceeding.
5. Remove the protective backing from the adhesive pad attached to the angled bracket.
6. Hold the angled bracket at a 45-degree angle to the glass surface, and then align the lower edge of the bracket with the taped reference line. Do not allow the adhesive to come in contact with the glass surface yet.

7. Once the angled bracket is level and aligned with the taped reference line, press the bracket to the mounting surface firmly to ensure proper adhesion and to eliminate any trapped air bubbles. Press and hold the outer edges and interior surfaces of the bracket against the surface for at least 30 seconds to ensure the adhesive bonds to the surface.

CAUTION: Allow a minimum of one hour (or up to 24 hours for maximum hold) for the adhesive to cure to the bracket and surface before installing the touch screen. Failure to properly cure the bracket to the mounting surface could cause the MSMK-ANG to detach after installation.

NOTE: All air bubbles must be smoothed out and eliminated to ensure a complete bond to the surface.

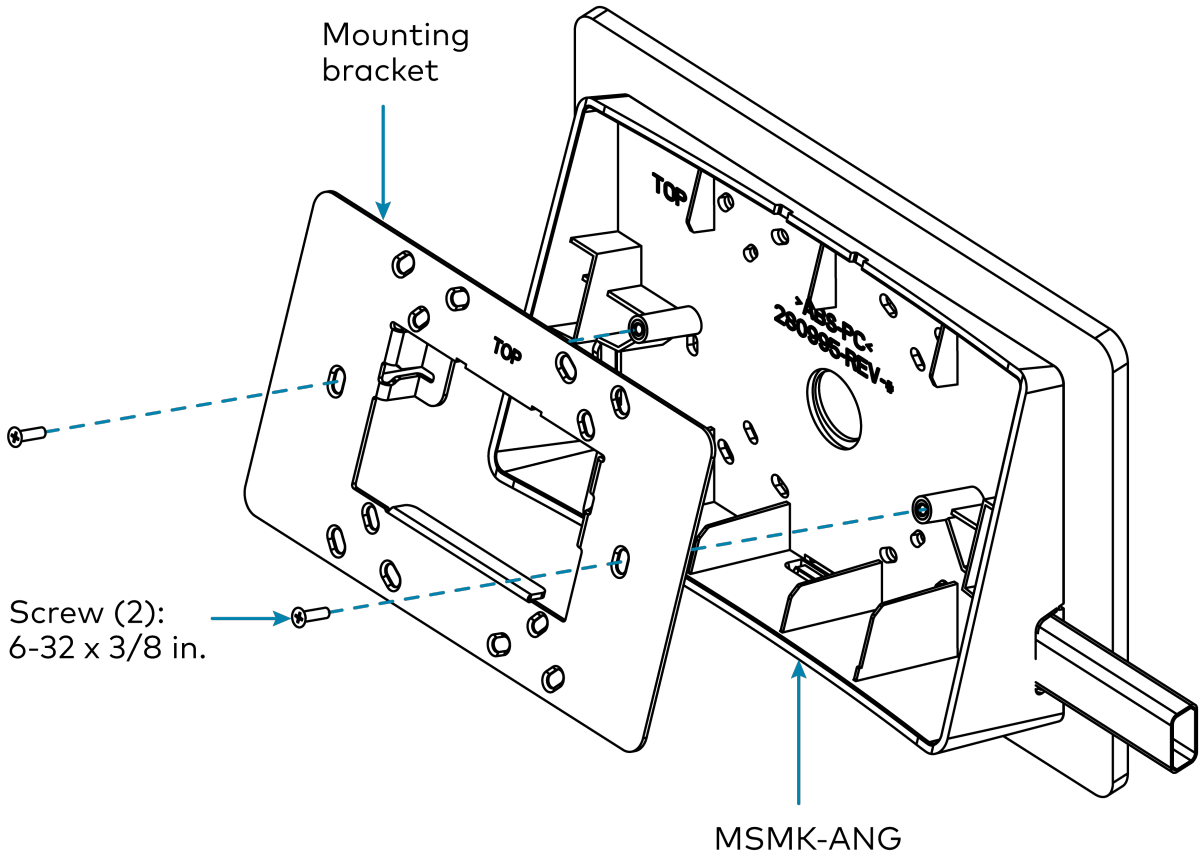


Attach the Touch Screen

1. Remove any existing tape guides and install any raceways (not included) to conceal cables running to the desired knockout on the angled bracket.

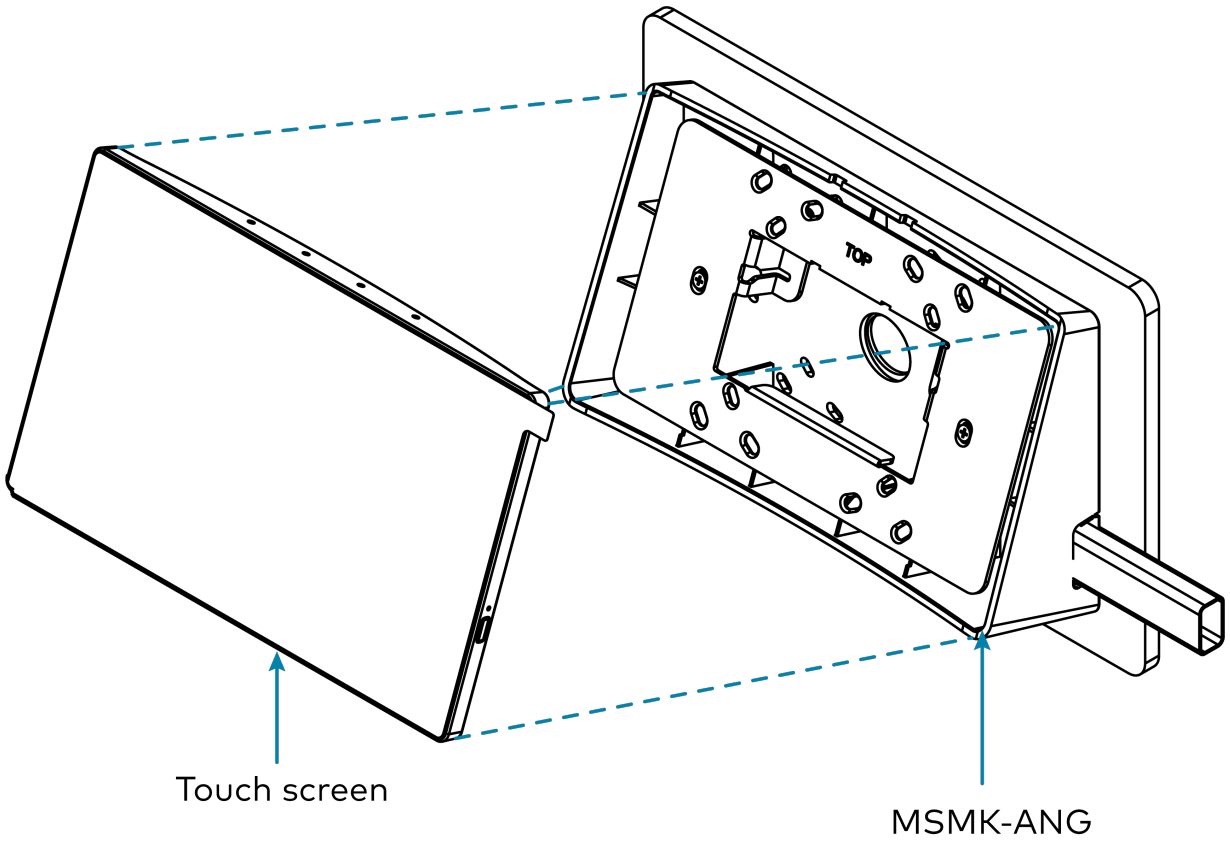
   > **NOTE:** To ensure the raceway fits into the knockout, Crestron recommends using raceway with the following dimensions: 0.45 H x 0.77 in. W (11 x 20 mm).

2. Attach the mounting bracket to the angled bracket using the two provided 6-32 x 3/8 in. screws. Ensure the bracket is level after installation.



3. Route all cables through the chosen knockout and out of the center opening in the angled bracket, and then connect them to the rear of the touch screen.

4. After all connections have been made, hold the touch screen over the mounting plate and place it gently in position so that it attaches securely to the plate.



Attach the Label (Optional)

To provide a finished appearance for installations on glass or other transparent surfaces, install the included polycarbonate label on the opposite side of the surface behind the MSMK.

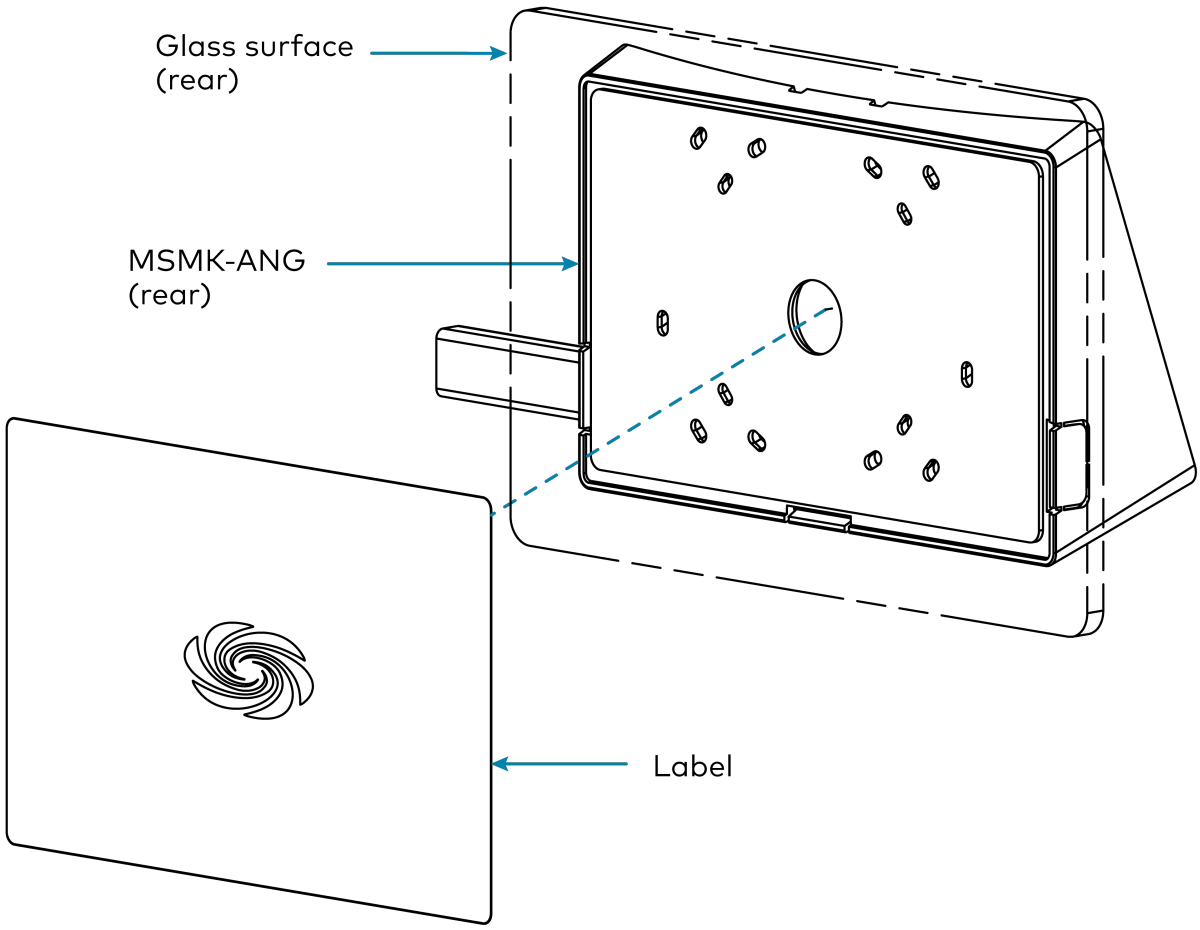
To install the label:

1. Clean and dry the rear of the mounting surface thoroughly. Refer to the caution statements at the beginning of the "Surface Mounting" section for important cleaning and drying notes.
2. Using the level, tape a horizontal reference line on the glass surface that aligns with the lower edge of the angled bracket on the opposite side. Ensure the reference line is level before proceeding.
3. Remove the protective liner from the rear of the label.

> **CAUTION:** The adhesive on the rear of the label is high-strength bond. Once the adhesive comes in contact with a surface, it cannot be removed easily.

4. Hold the label at a 45-degree angle to the angled bracket, and then align the lower edge of the label with the lower edge of the bracket. Do not allow the label adhesive to come in contact with the surface.
5. Once the label is level and aligned with the angled bracket, attach the label to the mounting surface carefully. Press and hold the label against the surface for at least 30 seconds to ensure the adhesive bonds to the surface.

> **NOTE:** All air bubbles must be smoothed out and eliminated to ensure a complete bond to the surface.



TSW-880/1080-MSMK Installation

The TSW-880/1080-MSMK provides the touch screen with the capability to be mounted directly to glass, granite, marble, wood paneling, plaster, smooth masonry, or virtually any other flat surface.

In the Box

Qty.	Description
1	TSW-880/1080-MSMK, Multisurface Mount Kit for TSW-880 and TSW-1080 Series
	Additional Items
1	Bracket, Plastic Assembly (4538485)
1	Cover, Black Plastic (2063176)
1	Plastic Cap (4538557)
4	Screw, 6-32 x 3/8 in. (2013475)
2	Template, Mounting Overlay (4530855)

TSW-880-1080-MSMK Mounting Instructions

Use the following procedures to mount the TSW-880/1080-MSMK onto a flat surface:

CAUTION: Observe the following points to ensure the TSW-880/1080-MSMK properly bonds to the mounting surface. Failure to properly bond the TSW-880/1080-MSMK to the mounting surface could cause it to detach after installation.

- Use isopropyl alcohol (minimum 70%) to clean the mounting surface. Other surface cleaning products can leave a film that will prevent the adhesive from properly bonding to the mounting surface.
- Use a new, clean nonlinting cloth to apply the isopropyl alcohol. The cloth should not have been used with any other cleaning product to ensure that it does not leave a film on the mounting surface.
- Allow the isopropyl alcohol to air dry on the mounting surface for at least one minute before applying adhesive. Do not dry the surface with a cloth prior to applying adhesive.
- Do not apply adhesive to the mounting surface in temperatures below 65°F (19°C).
- When mounting on glass surface, make sure the glass does not have any coating or film application.

NOTE: The following is not included and required for this installation: a level, masking tape, a Phillips screwdriver, and isoprophyl alcohol.

Position the Template

An overlay template is provided to help ensure that it remains level during installation. To position the template:

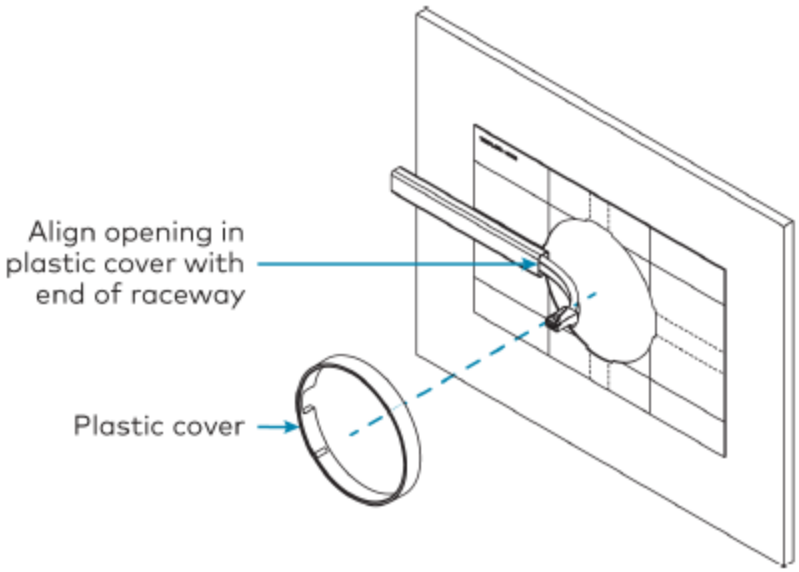
1. Clean and dry the mounting surface thoroughly as per the caution statement above.
2. Use a level and masking tape to attach the included rear housing template to the chosen mounting surface. Ensure that the template is level before proceeding.

Attach the Housing

To attach the TSW-880/1080-MSMK rear housing to the mounting surface:

1. Place the included plastic cover into the center cutout of the rear housing template. Ensure that the opening in the cover is facing toward the mounting surface.
2. While holding the cover in place, tape the outer ring of the cover to the template.

> **NOTE:** The tape must not be attached to the inner ring or the flat front surface of the plastic cover, as it cannot be removed easily once the rear housing is installed.



3. Route the cables loosely from the MSMK through the opening in the plastic cover and out of the appropriate cutout (top, bottom, left, or right) of the housing.
4. Remove the protective liner from the back of the housing.
5. Hold the housing at an angle so that the short, straight edge mates with the end of the cutout. Do not allow the adhesive to come in contact with the mounting surface.
6. Slide the circular base of the housing into the plastic cover without allowing the adhesive to come in contact with the surface. Two detents in the plastic cover help to lock the housing into the cover while providing some room for leveling.
7. Place a level on top of the housing.

8. After confirming that the housing is level, press its circular base to the mounting surface firmly for at least 30 seconds to ensure the adhesive bonds to the surface.

> **CAUTION:** Allow a minimum of one hour (or up to 24 hours for maximum hold) for the adhesive to cure to the bracket and surface before installing the touch screen. Failure to properly cure the bracket to the mounting surface could cause the MSMK to detach after installation.

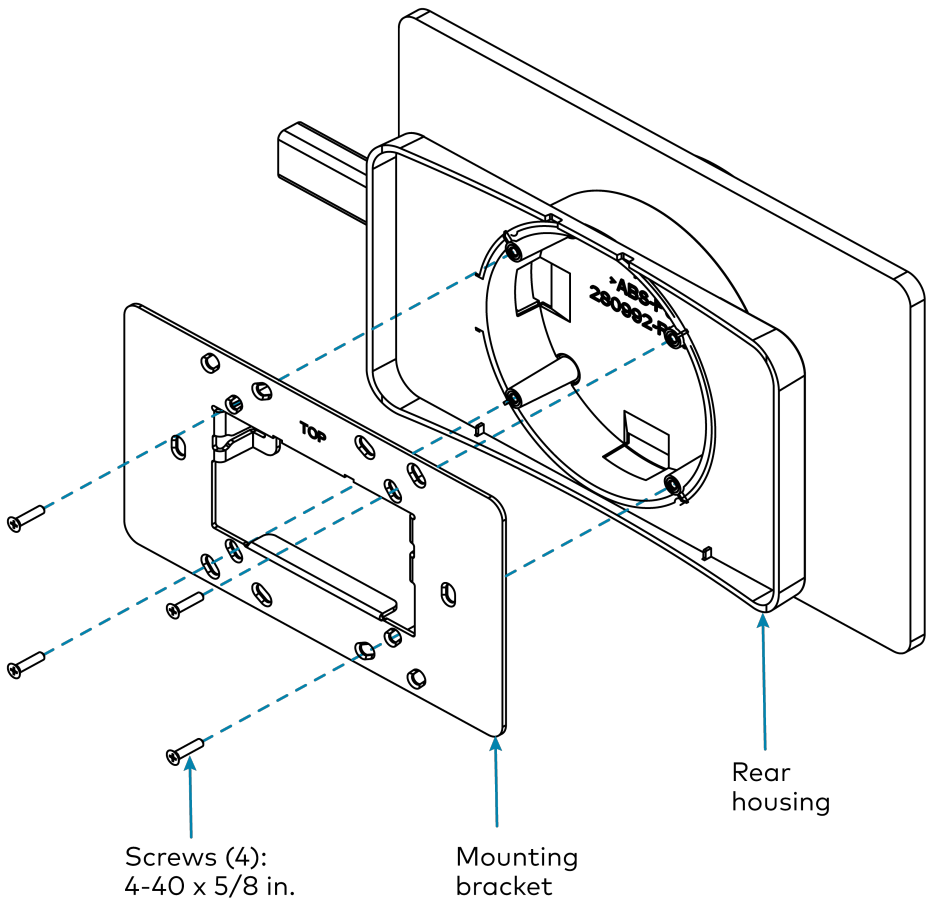
> **NOTE:** All air bubbles must be smoothed out and eliminated to ensure a complete bond to the surface.

Attach the Touch Screen

Attach the TSW-80 touch screen to the TSW-880/1080-MSMK:

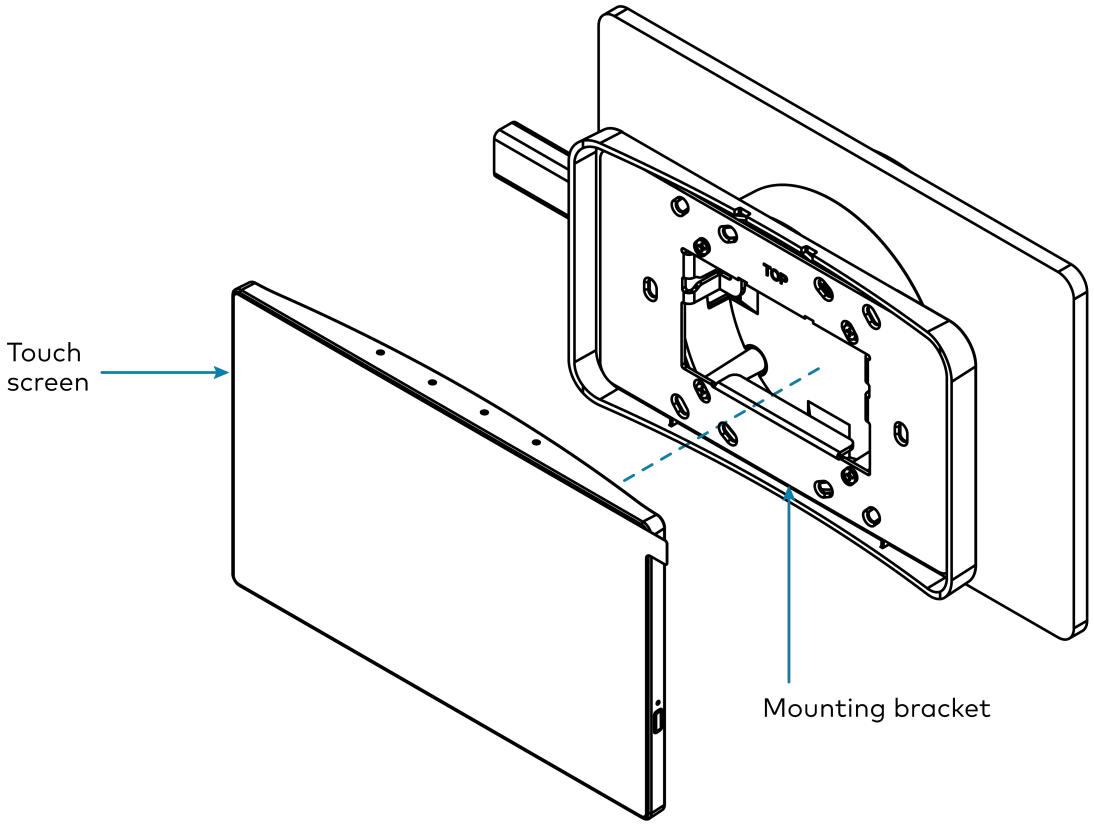
1. Cut the template off of the surface and remove any existing tape guides.
2. Use the included 4-40 x 5/8 in. screws to attach the touch screen to the four screw holes in the rear housing.

> **NOTE:** Use a level to adjust the mounting bracket position to ensure it is centered and level.



3. Connect all cables to the rear of the touch screen.

4. Push the touch screen gently into the TSW-880/1080-MSMK until the rear of the touch screen snaps into place inside the mounting bracket.



Attach the Plastic Cap (Optional)

To provide a finished appearance for installations on glass or other transparent surfaces, install the included molded plastic cap on the opposite side of the surface behind the MSMK:

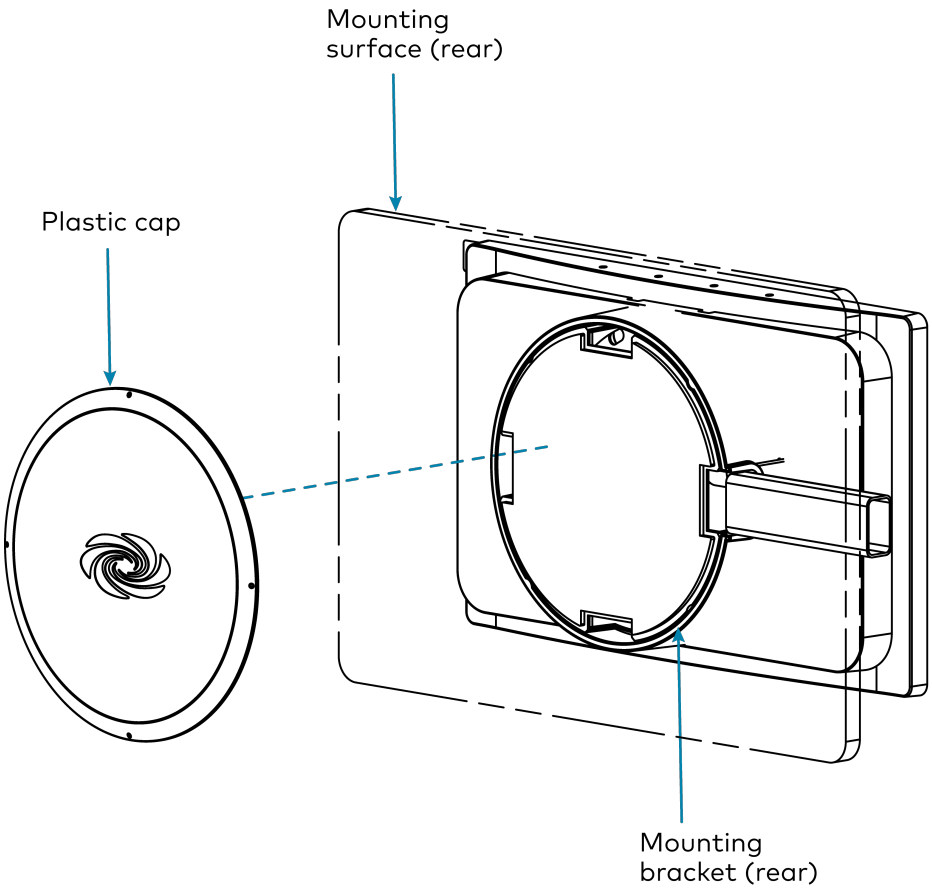
1. Clean and dry the rear of the mounting surface thoroughly.
2. Use a level to align the included plastic cap template with the circular base of the mounting bracket on the opposite side of the surface.
3. Tape the plastic cap template to the mounting surface.
4. Remove the protective liner from the rear of the plastic cap.

> **CAUTION:** The adhesive on the rear of the plastic cap is high-strength bond. Once the adhesive comes in contact with a surface, it cannot be removed easily. If the logo on the plastic cap is crooked after installation, it cannot be rotated.

5. Using the overlay template as a guide, hold the plastic cap over the center of the rear housing's circular base, and then align the four dots on the plastic cap with the four lines on the template. Do not allow the adhesive to come in contact with the surface.

6. Attach the plastic cap to the surface, starting with the bottom edge. Press the plastic cap to the surface firmly for at least 30 seconds to ensure the adhesive bonds to the surface.

> **NOTE:** All air bubbles must be smoothed out and eliminated to ensure a complete bond to the surface.



TSW-880-1080-MUMK Installation

The TSW-880/1080-MUMK enables a TSW-80 series touch screen to be attached to the mullion of an interior glass wall, window, or partition.

Refer to the following sections for information on mounting the TSW-880/1080-MUMK.

In the Box

Qty.	Description
1	TSW-880/1080-MUMK, Mullion Mount Kit for TSW-880 and TSW-1080 Series
	Additional Items
1	Extrusion Assembly, Mullion Mount (4537717)
1	Panel Cover, Mullion, Plastic (2063165)
1	Front Mount, Mullion, Painted Plastic (4538480)
1	Bracket, Mullion, Side Mount, Carbon Steel (2053274)
1	Bracket, Mullion, Front Mount, Galvanized Metal (2053273)
2	Jackscrew, Metal (2053371)
2	Spacer, 3/16 in. (2007095)
4	Screw, 6-32 x 1/2 in. (2007238)
2	Screw, 6-32 x 1/2 in. (2007241)
1	Allen Wrench, 7/64 in. (2021068)
1	Jacknut Wrench, 4 in. (2053373)
1	Template, Mullion Cutout (4538422)
2	Screw, 6-32 x 7/16 in. (2007236)
2	Screw, 6-32 x 1/2 in. (2007240)
1	Screw, 6-32 x 1 in. (2054883)
4	Screw, 4-40 x 1/2 in. (2007174)
2	Screw, 6-32 x 3/8 in. (2007230)
2	Screw, 4-20 x 1/4 in. (2014382)

TSW-880/1080-MUMK Side Mounting Configuration

To install the TSW-880/1080-MUMK in a side mount configuration:

1. Drill two 1/3 in. (8.4 mm) holes and one 1/2 in. (13 mm) center hole in the desired location on the mullion using the included cutout template.

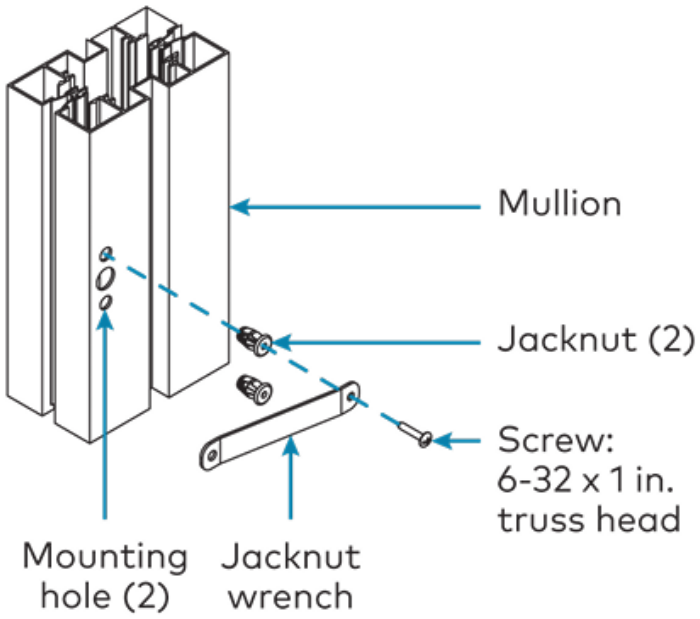
   NOTES:

   - For a completely flush installation, align the front edge of the mullion mount with the front of the mullion as a reference.
   - The mullion must have a minimum mounting depth of 3/4 in. (19 mm). If the mullion has a shallower depth, refer to TSW-880/1080-MUMK Front Mounting Configuration on page 104.
   - The chosen mounting location must provide sufficient length to run the cables from their sources through the mullion and up to the touch screen.

2. Thread the 6-32 x 1 in. truss head screw through the opening in the included jacknut wrench and into one of the jacknuts, then align the jacknut with one of the 1/3 in. (8.4 mm) holes drilled into the mullion.

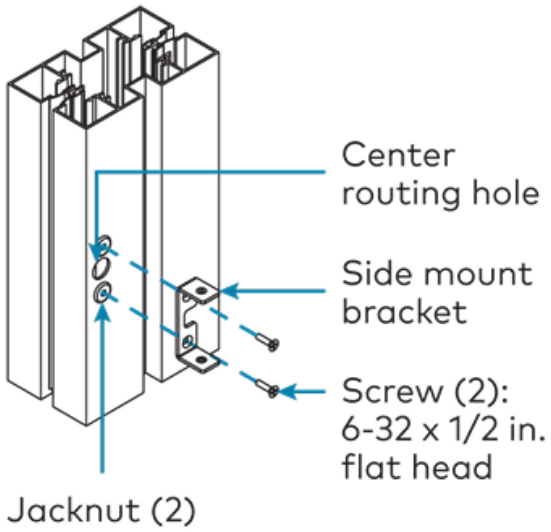
   NOTE: Ensure that the jacknut wrench is oriented correctly.

3. Rotate the jacknut wrench clockwise until the jacknut is secured to the mullion.
4. Remove the screw and wrench from the installed jacknut and repeat steps 2 and 3 for the other jacknut.

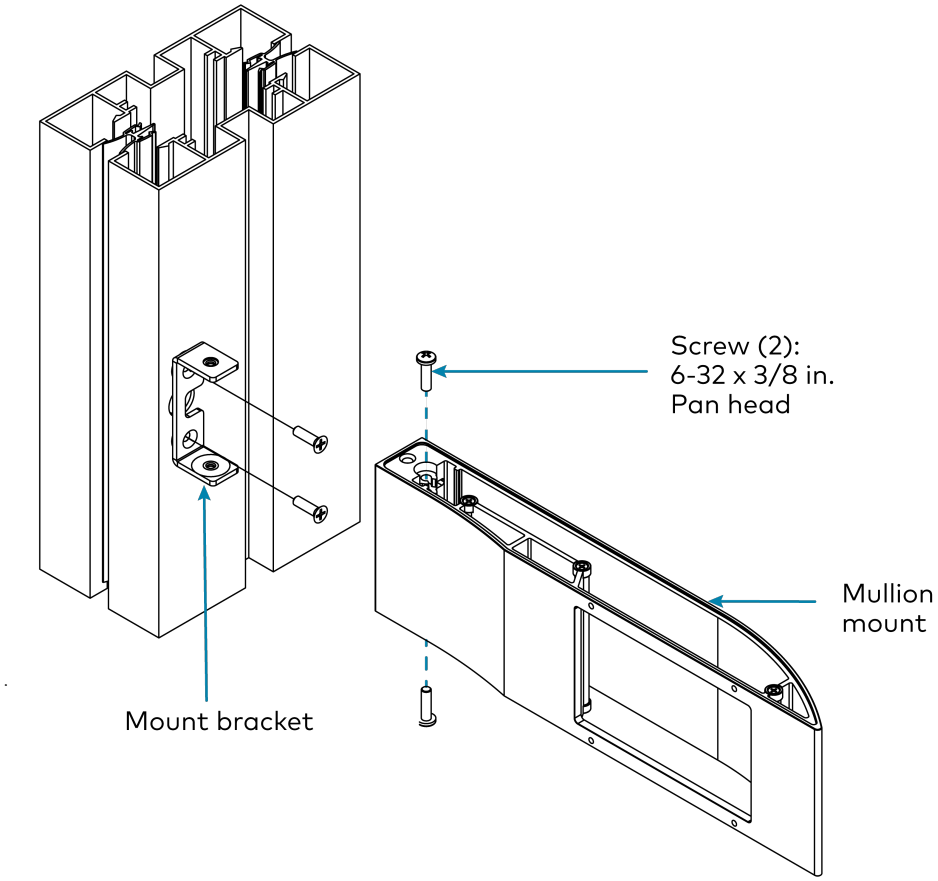


5. Run the Ethernet and any other cables up through the mullion and out of the center routing hole.

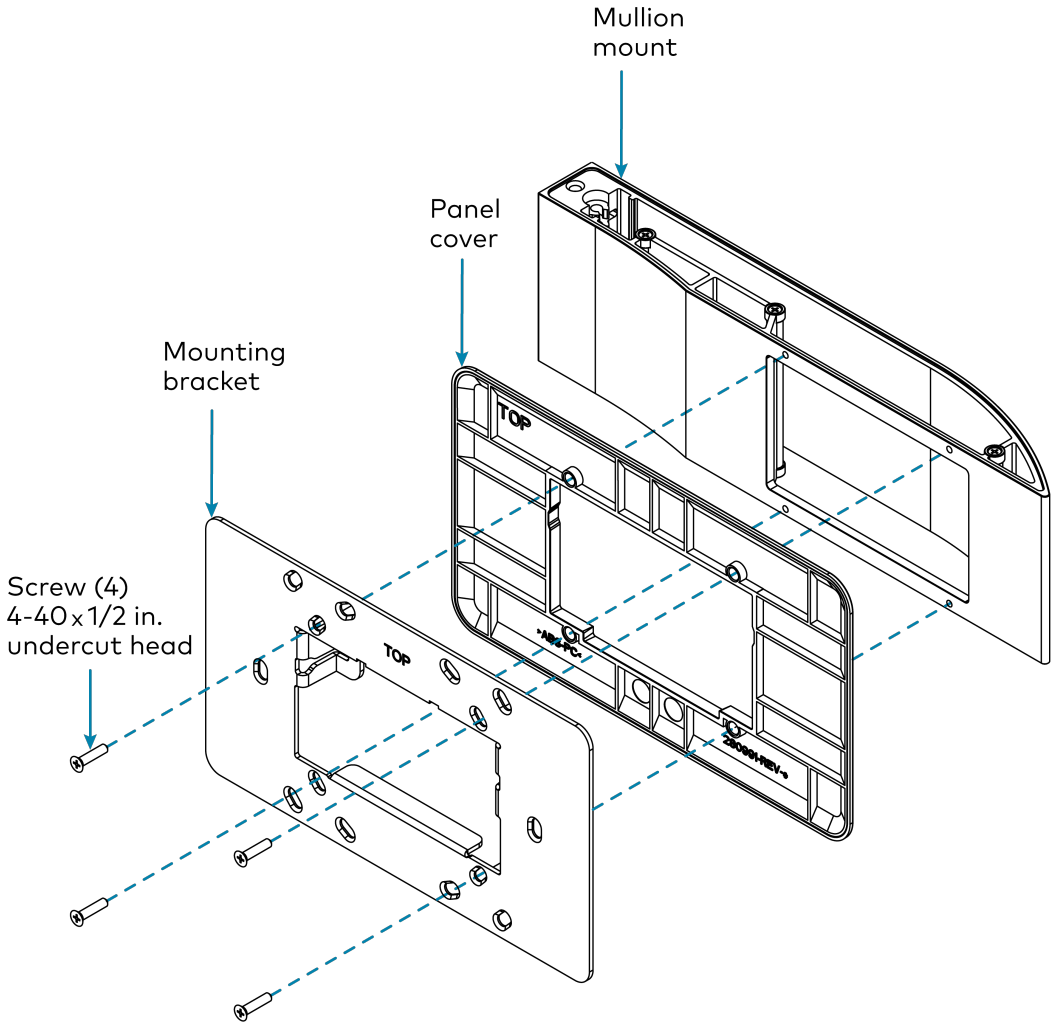
6. Attach the bracket to the jacknuts using the included 6-32 x 1/2 in. flat head screws.



7. Install the mullion mount:
    a. Pull the two cover plates gently off of the top and bottom of the mullion mount to break the magnetic hold. Refer to the illustration below step 9 for cover plate locations.
    b. Slide the mullion mount over the side mount bracket and route any cables out of the center hole in the mount.
    c. Secure the mullion mount to the bracket using the included Allen wrench and the two 6-32 x 3/8 in. socket

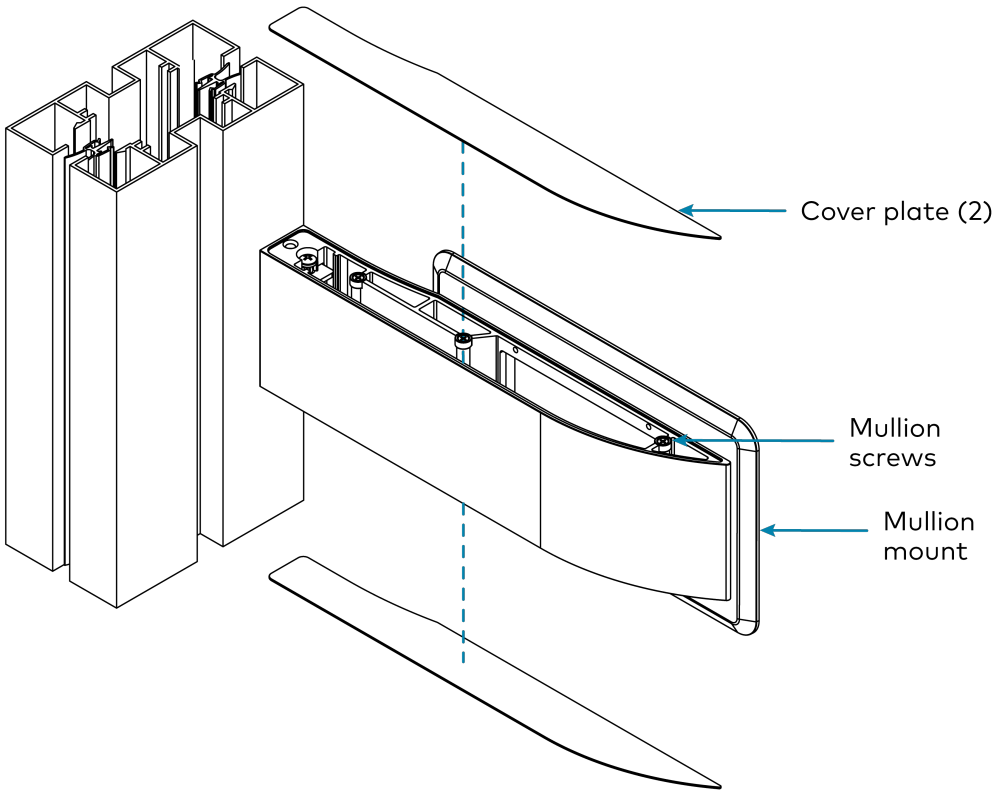


8. Align the panel cover as shown in the illustration below and secure it to the mullion mount with the four 4-40 x 1/2 in. undercut head screws.



9. Reattach the two fitted cover plates on the top and bottom of the mullion mount so that the cover plates magnetically snap into place against the exposed screws.

> **NOTE:** Ensure the cover plates are seated flush once installed in the mullion mount.



10. Route all necessary cables through the mounting bracket and connect to the touch screen. Apply power after all connections have been made.

TSW-880/1080-MUMK Front Mounting Configuration

To install the TSW-880/1080-MUMK in a front mount configuration:

1. Drill two 1/3 in. (8.4 mm) holes and one 1/2 in. (13 mm) center hole in the desired location on the mullion using the included cutout template.

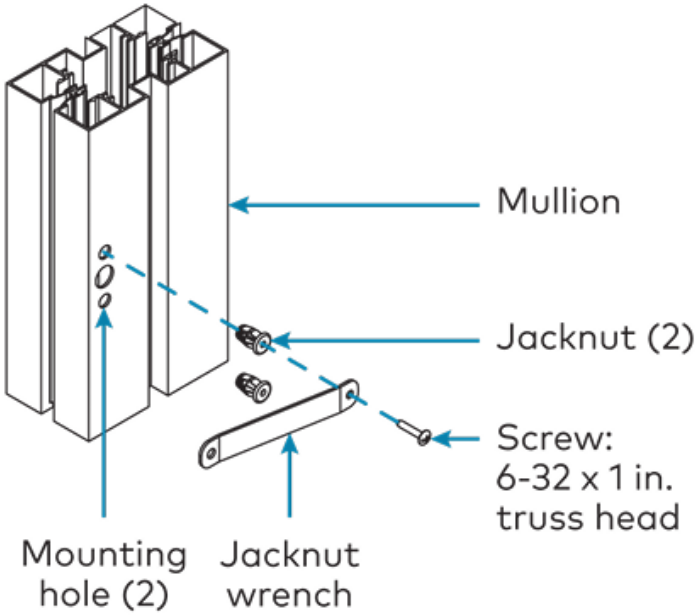
   NOTES:

   - The mullion must have a minimum mounting depth of 3/4 in. (19 mm). If the mullion has a shallower depth, contact Crestron True Blue Support.
   - The chosen mounting location must provide sufficient length to run the cables from their sources through the mullion and up to the touch screen.

2. Thread the 6-32 x 1in. truss head screw through the opening in the included jacknut wrench and into one of the jacknuts, then align the jacknut with one of the 1/3 in. (8.4 mm) holes drilled into the mullion.

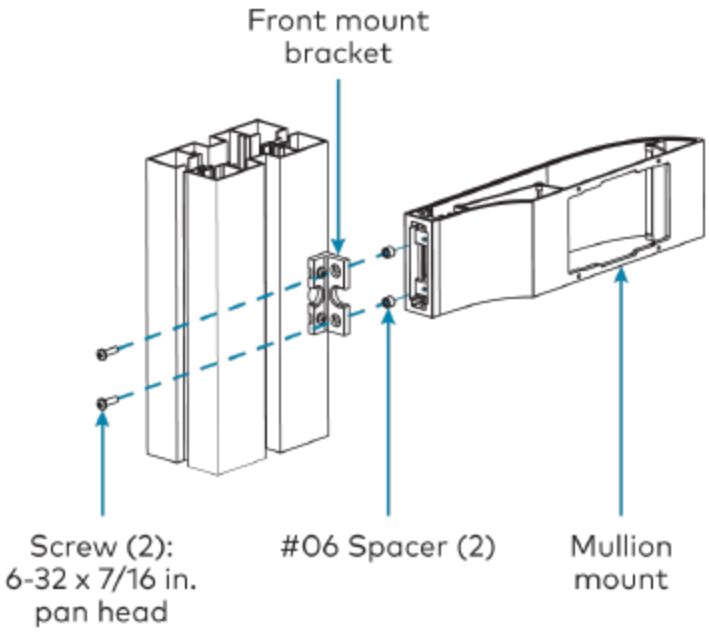
   NOTE: Ensure that the jacknut wrench is oriented correctly.

3. Rotate the jacknut wrench clockwise until the jacknut is secured to the mullion.
4. Remove the screw and wrench from the installed jacknut and repeat steps 2 and 3 for the other jacknut.

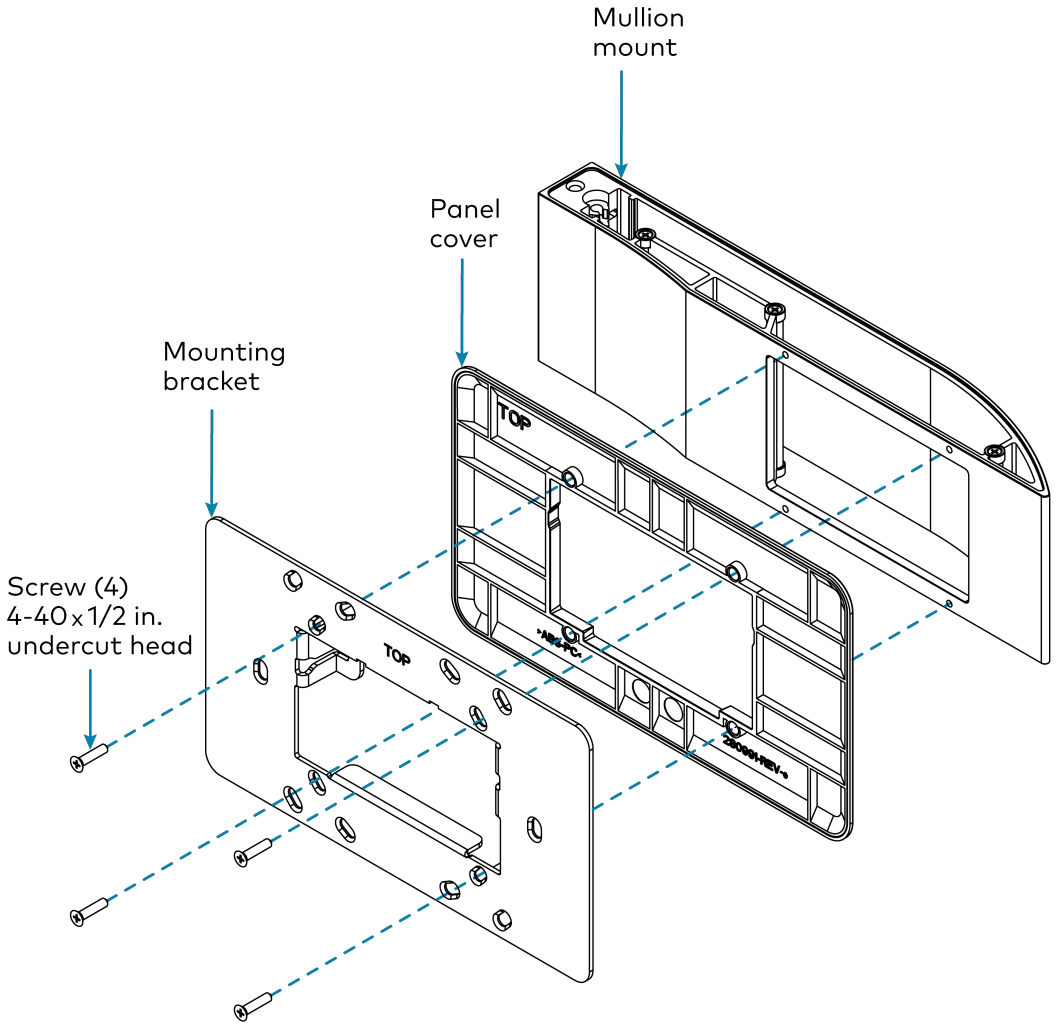


5. Run the Ethernet cable and USB cables (if used) up through the mullion and out of the center routing hole.
6. Attach the front mount bracket to the jacknuts using the included 6-32 x 1/2 in. pan head screws.

7. Install the mullion mount:
    a. Pull the two cover plates gently off of the top and bottom of the mullion mount to break the magnetic hold. Refer to the illustration below step 10 for cover plate locations.
    b. Route any cables out of the center hole in the mount.
    c. Secure the mullion mount to the bracket using the included the two 6-32 x 7/16 in. pan head screws with the two #06 spacers.

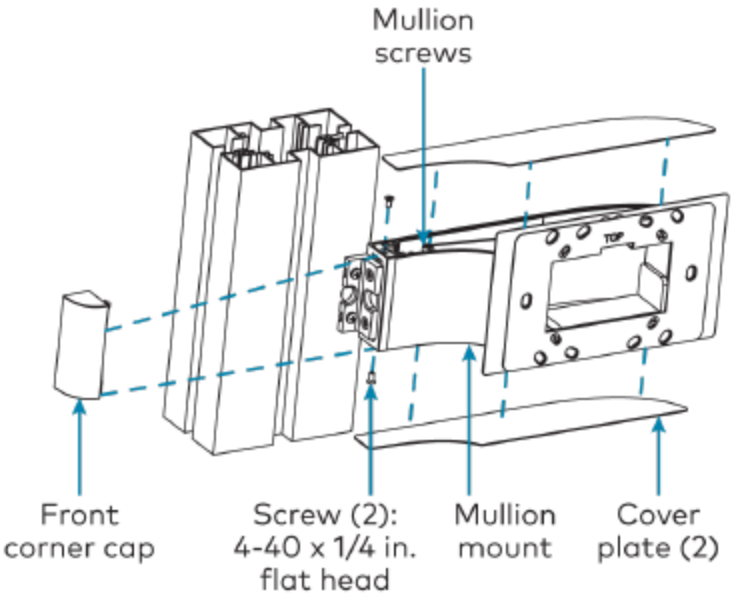


8. Align the panel cover as shown in the illustration below and secure it to the mullion mount with the four 4-40 x 1/2 in. undercut head screws.



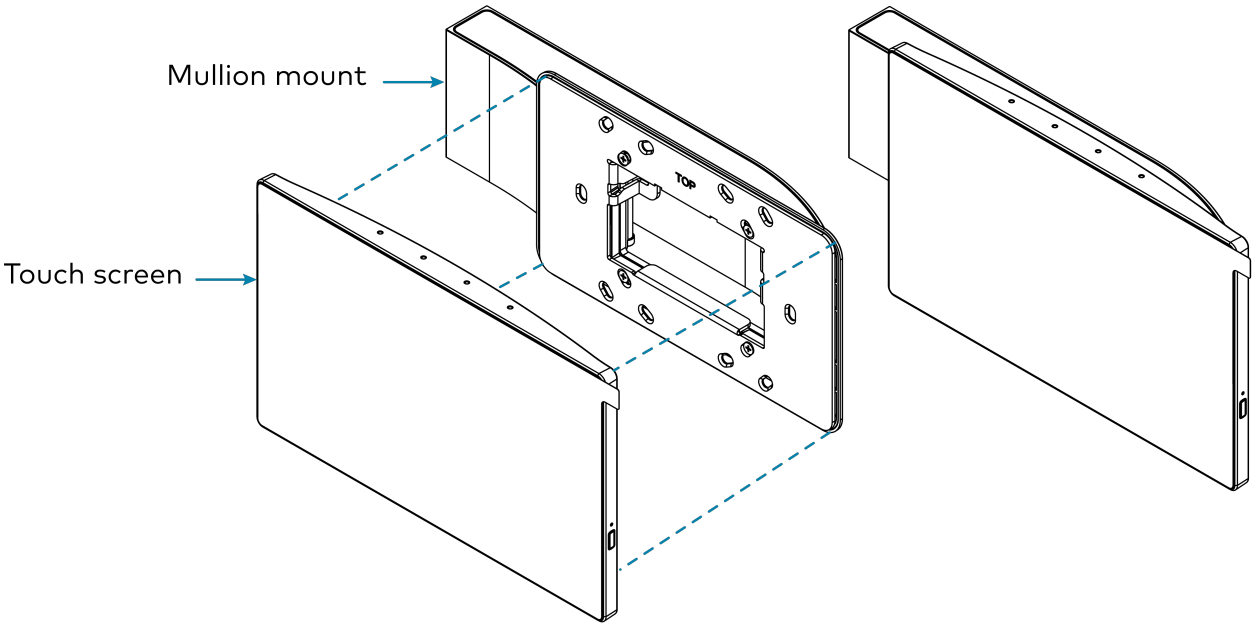
9. Slide the front corner cap over the exposed edges of the front mount bracket as shown in the illustration below, and secure it to the mullion using the two 4-40 x 1/4 in. flat head screws.

10. Reattach the two fitted cover plates on the top and bottom of the mullion mount so that the cover plates magnetically snap into place against the exposed screws.



Connect the Touch Screen

After all connections have been made, push the touch screen gently into the mounting bracket so the rear housing is secured within the center opening of the mounting bracket.



TSW-UMB-80 Installation

The TSW-UMB-80 provides an in-wall mounting solution for the TSS-80 and TSW-80 series touch screens. For preconstruction wall mounting applications, the TSW-UMB-80 can be used along with the TSW-UMB-80-PMK mounting kit. The TSW-UMB-80-BBI wall mount back box can be used for masonry and concrete installations. Refer to TSW-UMB-U-PMK Installation on page 116 and TSW-UMB-80-BBI Installation on page 112 for more information.

In the Box

Qty.	Description
1	TSW-UMB-80, Universal Mounting Bracket for TSW-80 Series

	Additional Items
2	Screw, 6-32 x 1/2 in. (2007240)
1	Template (4538516)

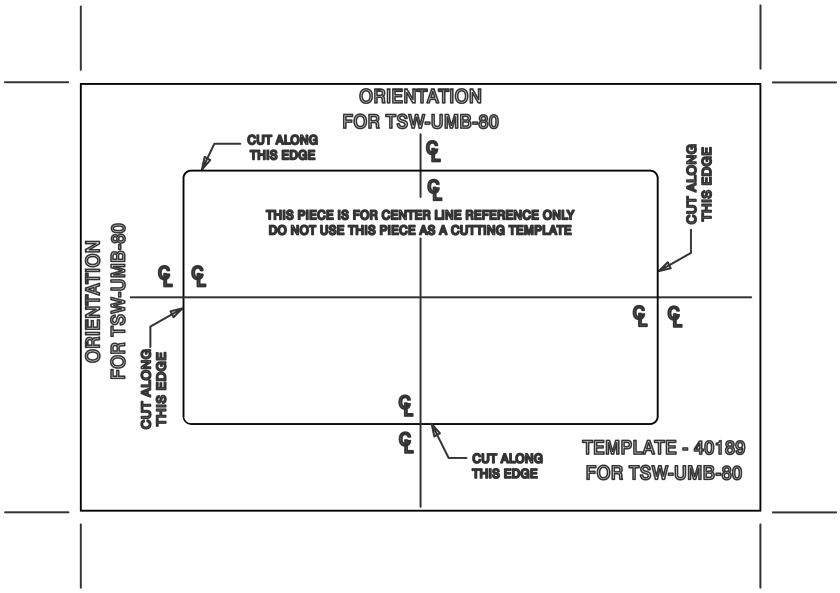
TSW-UMB-80 Mounting Instructions

Use the following procedure to install the TSW-UMB-80:

> **NOTE:** If installing the TSW-UMB-80 into a wall with a shallow mounting depth, remove the two 1 in. screws that hold the two halves of the bracket together and replace them with the included 6-32 x 1/2 in. screws.

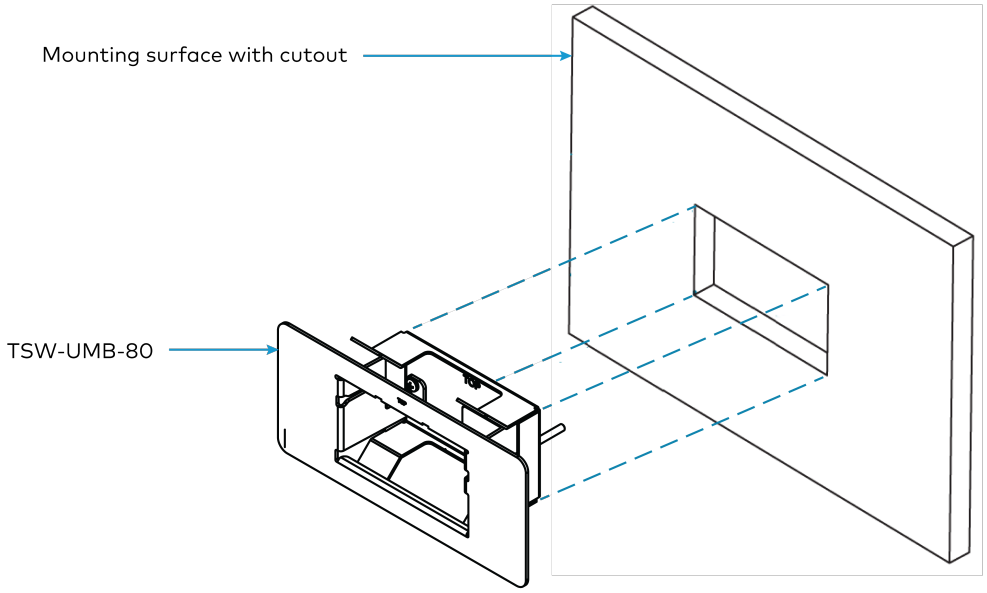
1. Choose a mounting location that is free of any wiring, studs, or other obstructions. Make a small hole in the surface near the center of the chosen location to verify that it is suitable for mounting.

2. Place the included cutout template in the desired location on the mounting surface and confirm it is level.

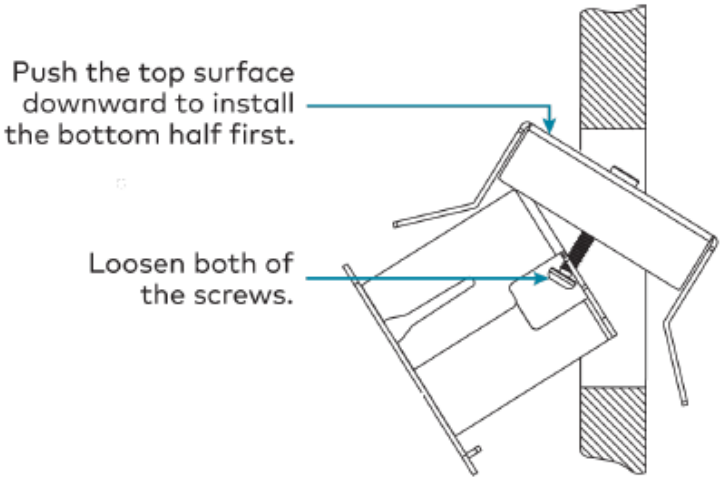


3. Trace an outline around the center cutout of the template.
4. Use the outline to cut an opening into the surface using an appropriate drywall saw.
5. Loosen the two screws on the TSW-UMB-80 assembly, but do not remove them.

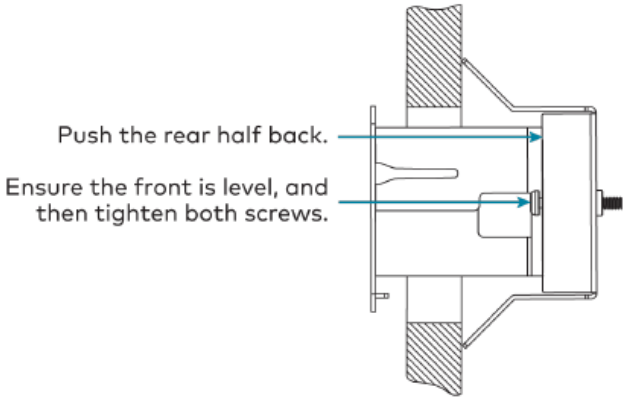
6. Install the assembly into the opening, bottom first.



7. Reach into the assembly and push the rear half back so that it is behind the mounting surface completely. Ensure the front of the assembly is level.



8. Tighten the two screws on the assembly to secure it to the surface. Do not overtighten the screws.



9. Attach the TSW-880/1080 mounting bracket to the TSW-UMB-80. Refer to TSW-880 and TSW-1080 Installation on page 76 for more information on installing the mounting bracket.
10. Route all necessary cables through the mounting bracket and connect to the touch screen. Apply power after all connections have been made.
11. After all connections have been made, push the touch screen gently into the mounting bracket so the rear housing is secured within the center opening of the mounting bracket.

TSW-UMB-80-BBI Installation

The TSW-UMB-80-BBI is a wall mounted metal back box for the TSS-80 and TSW-80 series touch screens. The TSW-UMB-80-BBI is designed to be used along with the TSW-UMB-80 universal mounting bracket. Refer to the TSW-UMB-80 Installation on page 108 for further information.

In the Box

Qty.	Description
1	TSW-UMB-80-BBI, Wall Mount Back Box for TSW-80 Series

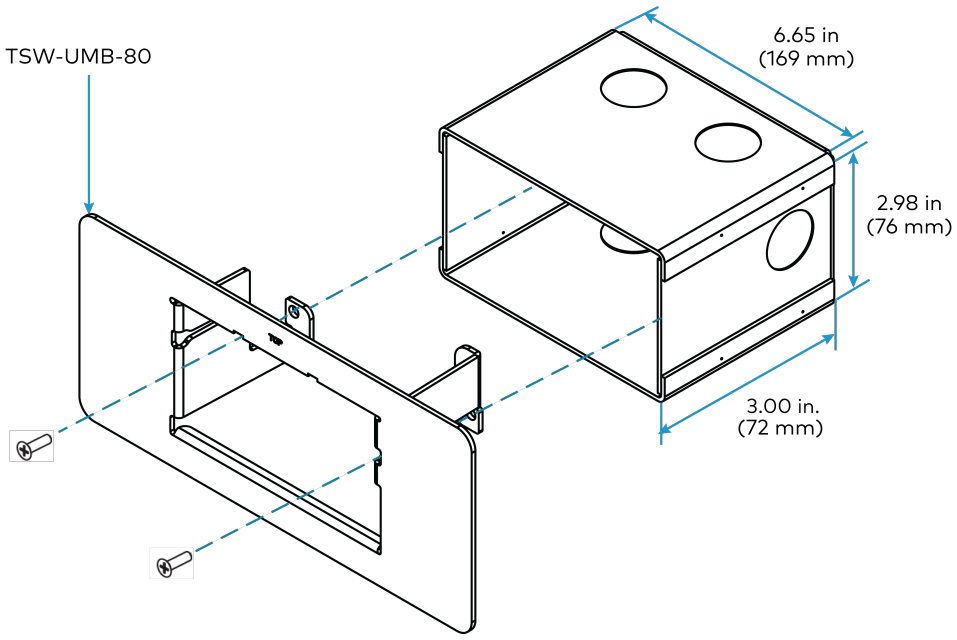
	Additional Items
1	Front Mounting Bracket (2064071)
2	Screw, 6-32 x 1/2 in. (2007240)

TSW-UMB-80-BBI Mounting Instructions

Use the following procedure to install the TSW-UMB-80-BBI:

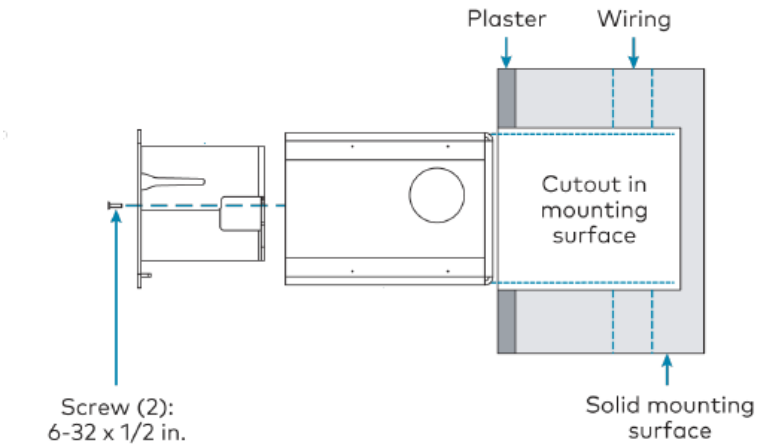
1. Choose a mounting location that is free of any wiring, studs, or other obstructions. Make a small hole in the surface near the center of the chosen location to verify that it is suitable for mounting.

2. Use the two included 6-32 x 1/2 in. screws to attach the front portion of the TSW-UMB-80 to the TSW-UMB-80-BBI.



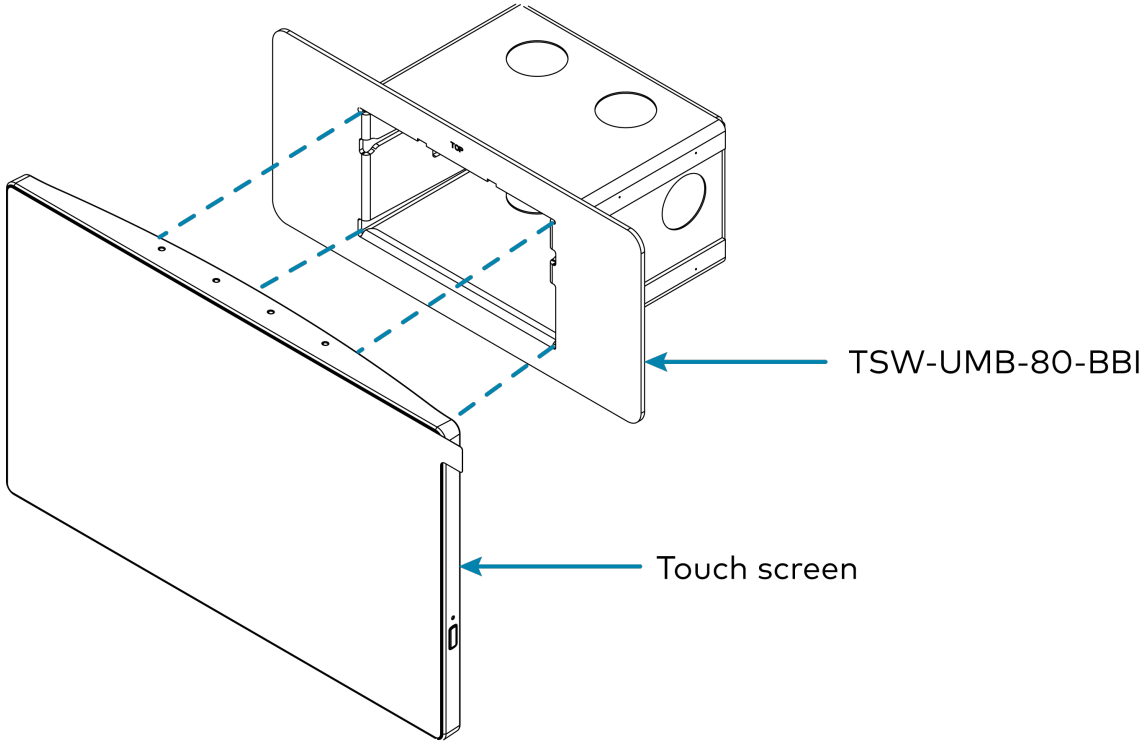
3. Remove the appropriate knockout(s) on the TSW-UMB-80-BBI for routing wiring to the touch screen.
4. Route wiring through the knockout(s) and out through the front opening in the TSW-UMB-80.
5. Use the dimensions shown in the illustration above to create an appropriately sized cutout in the mounting surface. No minimum clearances are required.

6. Mount the TSW-UMB-80-BBI into the cutout in the mounting surface as shown in the following illustration. Ensure the "TOP" text on both the TSW-UMB-80 and TSW-UMB-80-BBI is facing upward prior to installation.



7. Attach the TSW-880/1080 mounting bracket to the TSW-UMB-80-BBI. Refer to Refer to TSW-880 and TSW-1080 Installation for more information on installing the mounting bracket.
8. Route all necessary cables through the mounting bracket and connect to the touch screen. Apply power after all connections have been made.

9. After all connections have been made, push the touch screen gently into the mounting bracket so the rear housing is secured within the center opening of the mounting bracket.



TSW-UMB-U-PMK Installation

The TSW-UMB-U-PMK is a preconstruction mounting kit which permits fastening to the left or right-hand stud of a framed wall prior to installing drywall. The TSW-UMB-U-PMK can be used with the TSW-UMB-80 universal mounting bracket. Refer to the TSW-UMB-80 Installation on page 108 for further information.

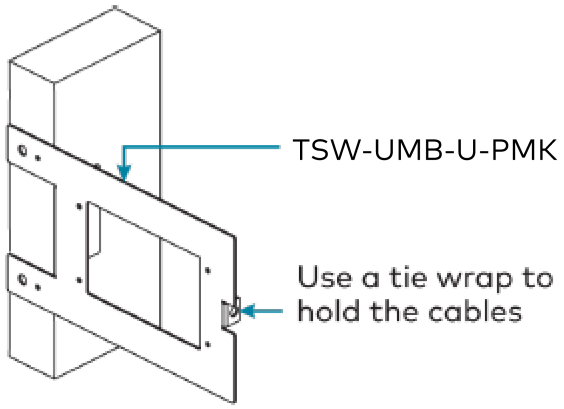
Refer to the following sections for information on mounting the TSW-UMB-U-PMK.

In the Box

Qty.	Description
1	TSW-UMB-U-PMK, Preconstruction Mounting Kit for TSW-60/70/80 Series

TSW-UMB-U-PMK Mounting Instructions

For preconstruction applications, use standard drywall nails or screws (not included) to attach the TSW-UMB-U-PMK to a wall stud as shown in the following illustration.



For postconstruction applications:

1. Use the PMK as a cutout template by turning it to face the mounting surface.
2. Confirm the PMK is level, then use finishing nails to tack the PMK to the surface through the four small holes around the cutout opening.
3. Trace an outline around the center cutout of the PMK.
4. Use the outline to cut an opening into the surface using an appropriate drywall saw.

To connect the touch screen:

1. Attach the TSW-880/1080 mounting bracket to the TSW-UMB-U-PMK. Refer to TSW-880 and TSW-1080 Installation on page 76 for more information on installing the mounting bracket.
2. Route all necessary cables through the mounting bracket and connect to the touch screen. Apply power after all connections have been made.
3. After all connections have been made, push the touch screen gently into the mounting bracket so the rear housing is secured within the center opening of the mounting bracket.

TSW-RMB Installation

The 80 Series TSW-RMB series retrofit mounting brackets provide versatile mounting solutions for TSS-80 and TSW-80 series touchscreens.

In the Box

Qty.	Description
1	TSW-RMB-1, Retrofit Mounting Bracket
	Additional Items
1	Bracket, Adapter, APAD (2055401)
1	Cover Plate, Adapter (2055405)
2	Mounting Bracket (4001193)
8	Screw, 4-40 x 3/4 in. Flat, Phillips (2029110)
4	Screw, 4-40 x 1-1/2 in. Flat Head, Phillips (2037906)
1	TSW-RMB-2, Retrofit Mounting Bracket
	Additional Items
1	Bracket, Adapter, TPS-4L (2055402)
1	Cover Plate, Adapter, TPS-4L (2055406)
2	Mounting Bracket, TPS-4L (4519515)
8	Screw, 4-40 x 3/4 in. Flat, Phillips (2029110)
4	Screw, 4-40 x 1-1/2 in. Flat Head, Phillips (2037906)
1	TSW-RMB-3, Retrofit Mounting Bracket
	Additional Items
1	Bracket, Adapter, TPS-6L (2055403)
1	Cover Plate, Adapter, TPS-6L (2055407)
2	Mounting Bracket, TPS-6L (4519516)
8	Screw, 4-40 x 3/4 in. Flat, Phillips (2029110)
4	Screw, 4-40 x 1-1/2 in. Flat Head, Phillips (2037906)
1	TSW-RMB-5, Retrofit Mounting Bracket
	Additional Items
1	Bracket, Plastic, RMB-5 (2064647)

TSW-RMB Mounting Instructions

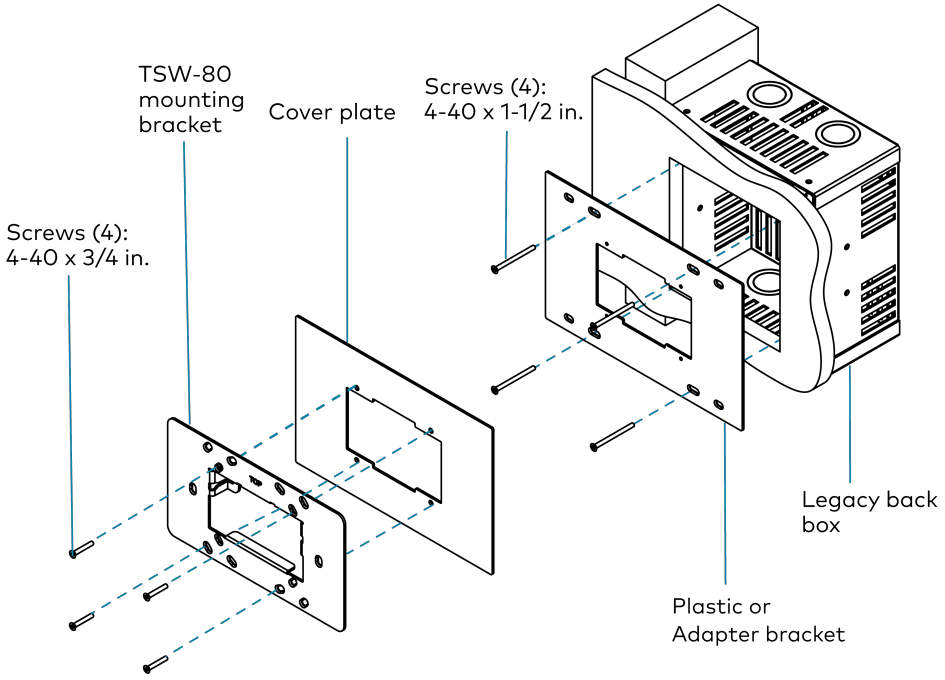
Use the following procedure to install the TSW-RMB-1, TSW-RMB-2, TSW-RMB-3 or TSW-RMB-5:

Install with a Back Box

To install the TSW-RMB-1, TSW-RMB-2, TSW-RMB-3 or TSW-RMB-5 in applications with an existing back box:

1. Attach the adapter or plastic bracket to the existing back box using the included 4-40 x 1-1/2 in. screws.
2. Attach the TSW-80 mounting bracket (included with the touch screen) and the cover plate to the adapter bracket using four of the included 4-40 x 3/4 in. screws. Refer to the following illustration:

   > **NOTE:** The TSW-RMB-5 installs over a pre-existing 60 or 70 series mounting bracket with the included plastic bracket instead of a cover plate.



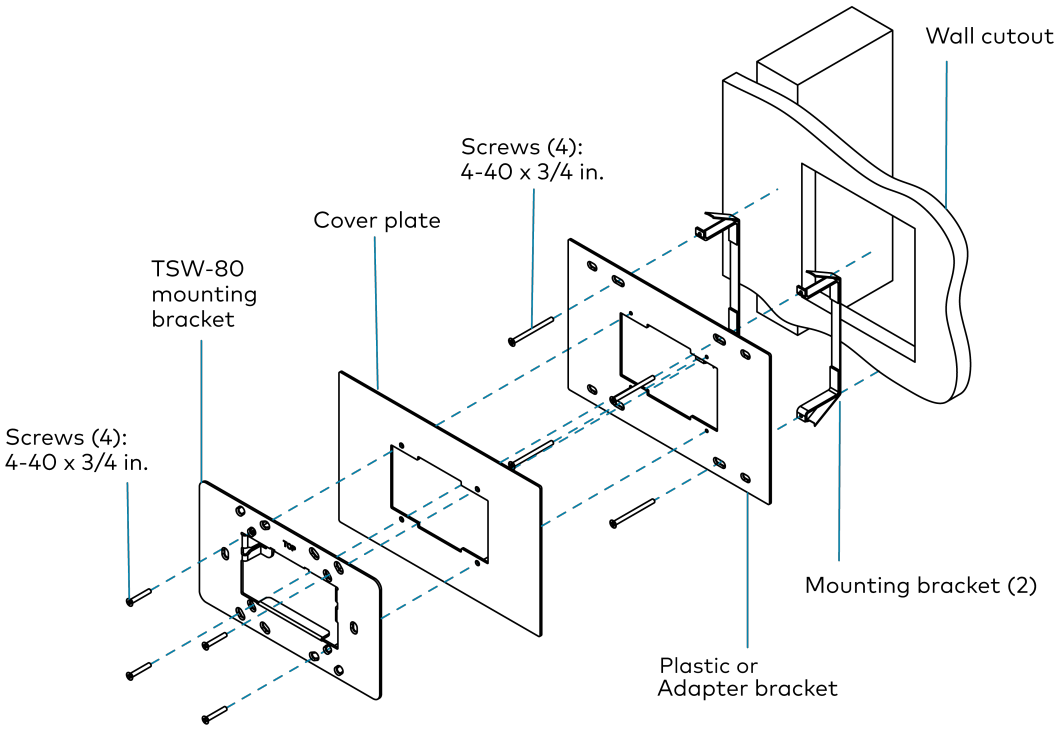
3. Attach the touch screen to the TSW-80 mounting bracket to complete the installation.

Install without a Back Box

To install the TSW-RMB in applications without an existing back box:

1. Attach the adapter or plastic bracket loosely to the included mounting brackets using four of the 4-40x 3/4 in. screws. Insert the screws far enough that they engage the threads in the bracket, but do not tighten yet.
2. Push the assembly into the wall until the mounting brackets are seated fully and clip to the wall.
3. Tighten the four screws to secure the mounting bracket.
4. Attach the TSW-80 mounting bracket (included with the touch screen) and the cover plate to the adapter bracket using the four remaining 4-40 x 3/4 in. screws. Refer to the following illustration:

> **NOTE:** The TSW-RMB-5 installs over a pre-existing 60 or 70 series mounting bracket assembly with the included plastic bracket instead of the cover plate. Mounting brackets pictured below are not required.



5. Attach the touch screen to the TSW-80 mounting bracket to complete the installation.

TSW-RMK Installation

The 80 Series TSW-RMK-3U and TSW-RMK-4U series rack mount kits provide versatile mounting solutions for TSS-80 and TSW-80 series touch screens.

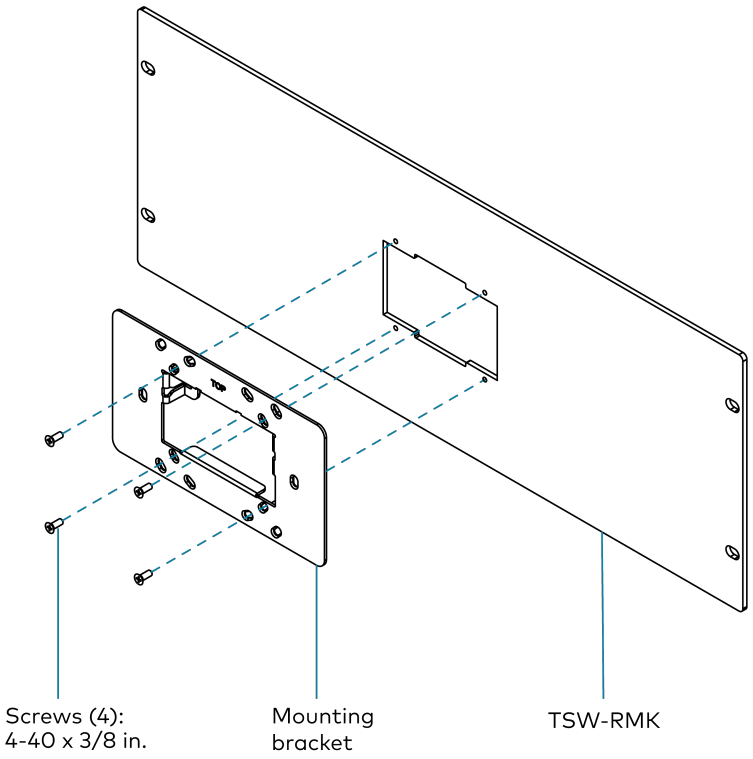
In the Box

Qty.	Description
1	TSW-RMK-3U, Rack Mount Kit
	Additional Items
1	Plate, Rack Mount (2048550)
1	Mounting Bracket (2055409)
4	Screw, 4-40 x 3/8 in., Phillips (2007173)
2	Screw, 6-32 x 5/16 in., SEMS, Phillips (2007224)
4	Screw, 6-32 x 3/8 in., Phillips (2007235)
1	TSW-RMK-4U, Rack Mount Kit
	Additional Items
1	Plate, Rack Mount (2048551)
4	Screw, 4-40 x 3/8 in., Phillips (2007173)

TSW-RMK Mounting Instructions

Use the following procedure to install a TSS-80 or TSW-80 touch screen into a rack:

1. Attach the rack mounting plate to the rack using the appropriate mounting hardware.
2. Attach the TSW-80 mounting bracket (included with the touch screen) to the rack mounting plate using the included 4-40 x 3/8 in. screws. Refer to the illustration below:



3. Attach the touch screen to the TSW-80 mounting bracket to complete the installation.

TSW-1580-TTK Installation

TSW-1580-TTK tabletop mounting kit for the TSW-1580 is designed for installations on flat surface or at the edge of a table. When installed, the kit tilts the TSW-1580 at a 45° angle.

Use the following procedure to install the TSW-1580-TTK.

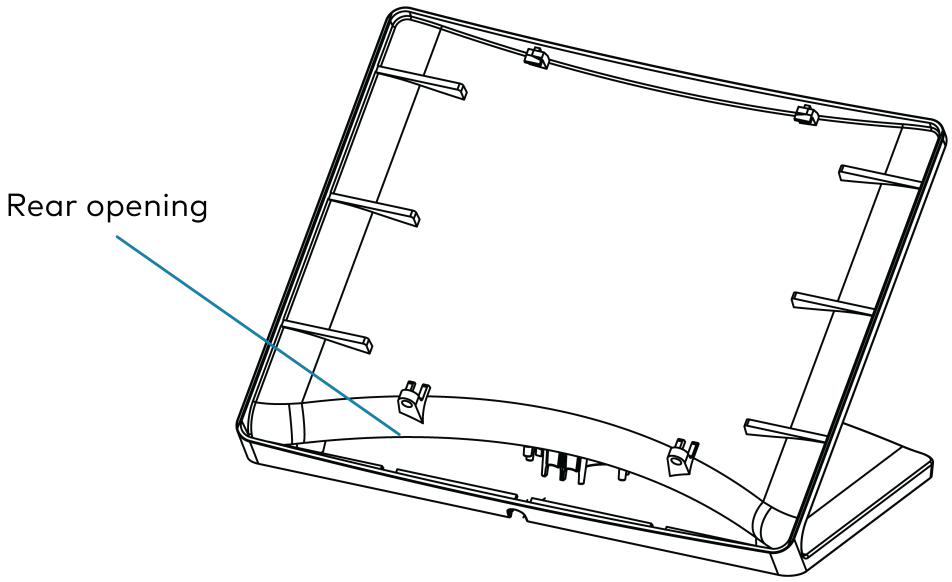
In the Box

Qty.	Description
1	TSW-1580-TTK, Tabletop Kit for TSW-1580
	Additional Items
1	Housing, Metal, Die Cast (4539725)
1	Rubber Grommet, Strain Relief (2065020)
1	Cover, Rubber (4539164)
4	Screw, 6-32 x 1/4 in., Phillips (2007217)
2	Screw, 3 x 0.5 x 8 mm, Socket Head (2066070)
1	Allen Wrench, Metal (2066069)

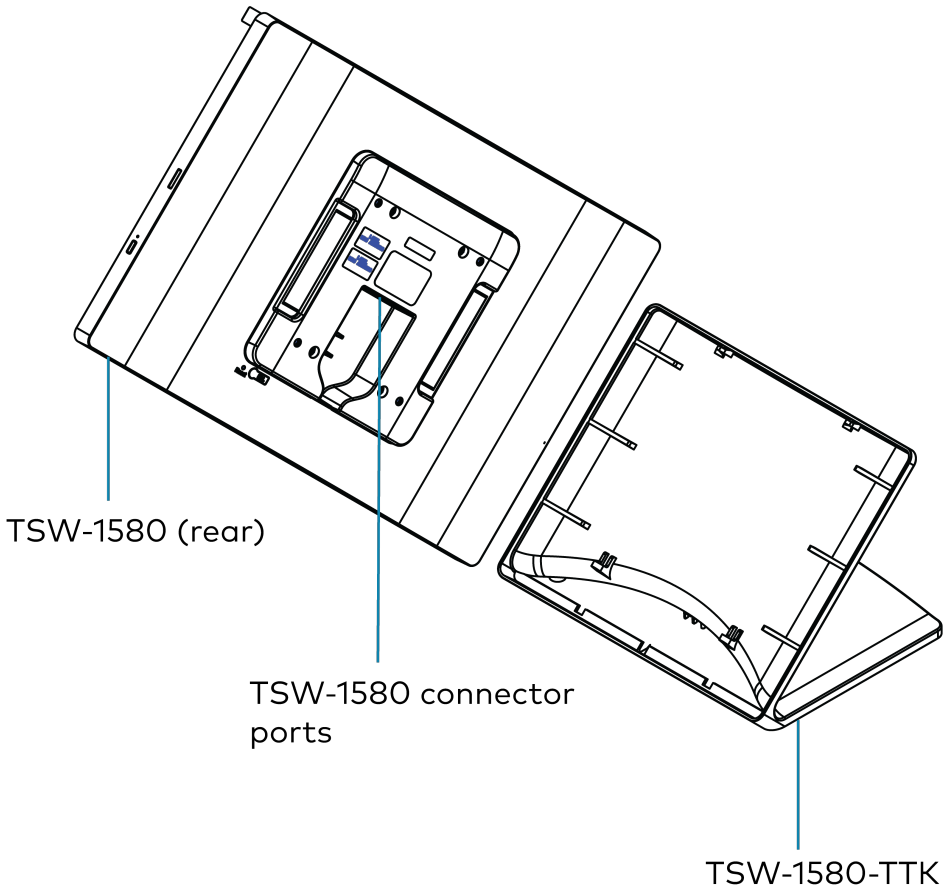
Install the TSW-1580-TTK

To install the TTK onto a table or a similar flat surface:

1. Route all necessary cables through the rear opening of the TTK.

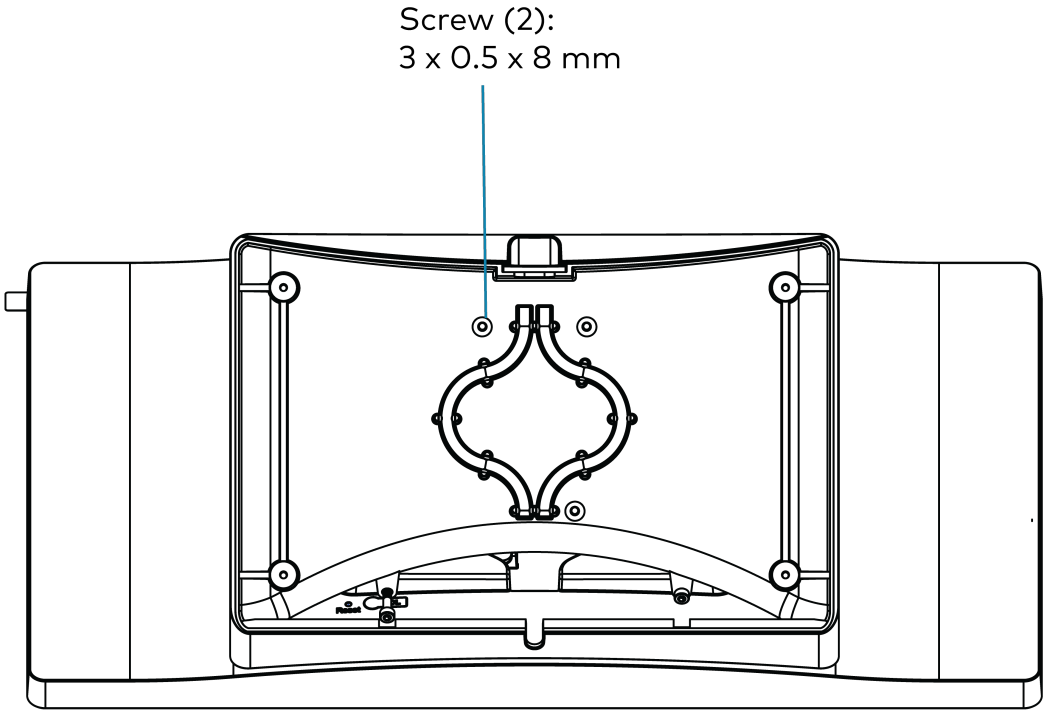


2. Connect all cables to the rear of the touch screen.

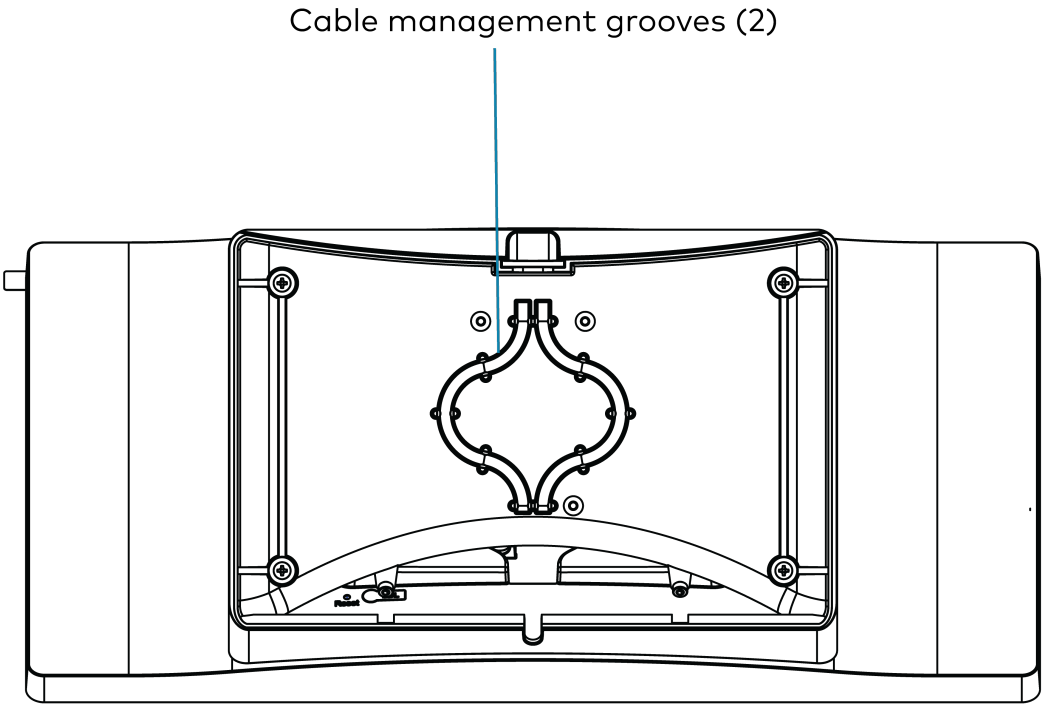


3. Attach the TSW-1580 to the front opening of the TTK, top side first, until the touch screen fits snugly against the rear housing.

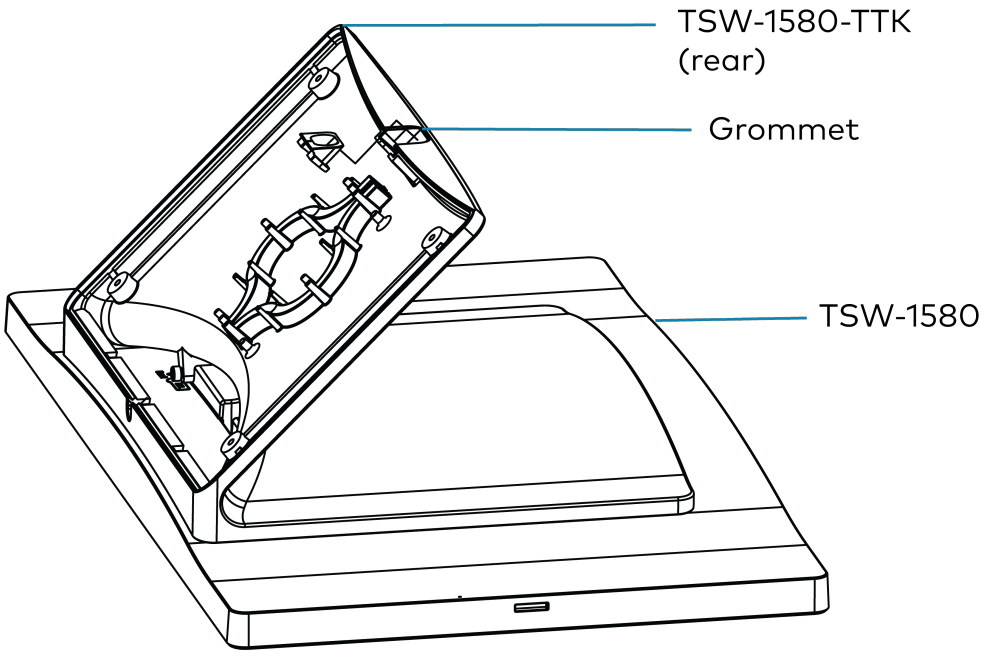
4. Carefully place the combined TSW-1580 and TTK assembly face down on the white insert included with the packaging. On the rear of the TTK, secure and tighten the two included 3 x 0.5 x 8 mm screws. Refer to the illustration below.



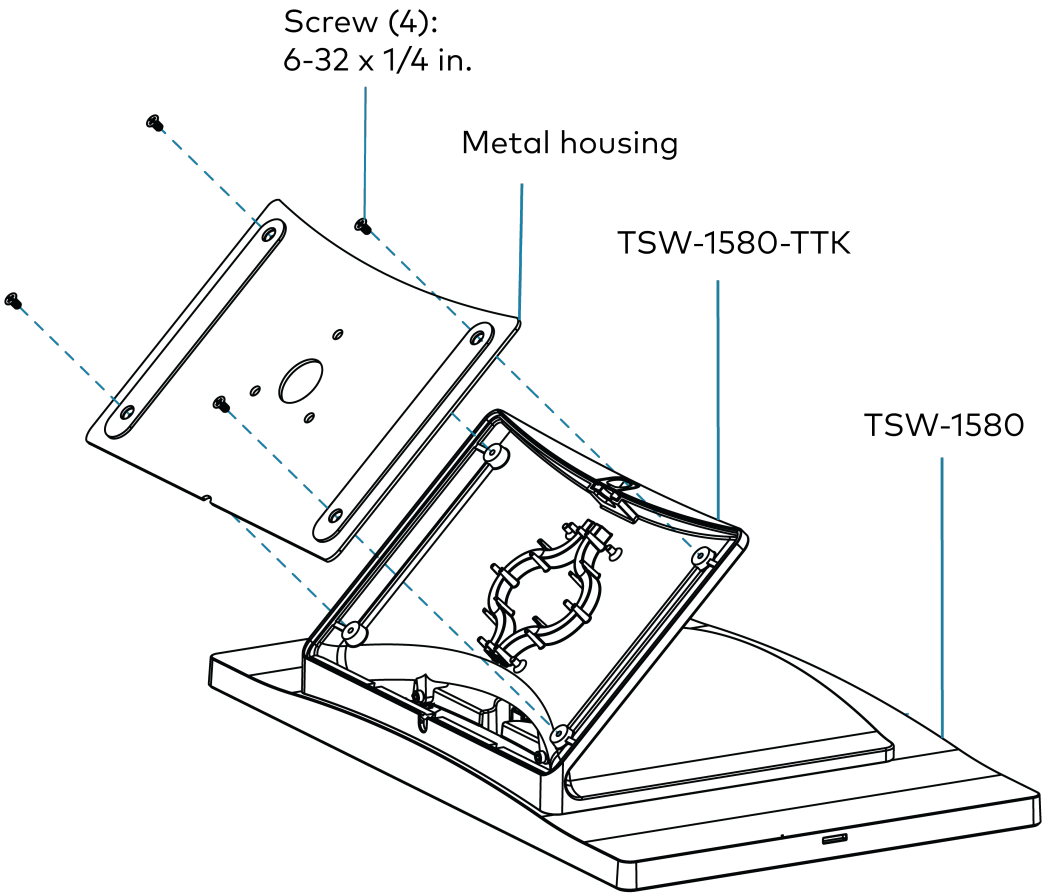
5. Route cables through the raised cable management grooves running down the TTK and apply light pressure until the cables snap into place within each of the clips along the groove.



6. Continue threading all necessary cables from the touch screen through the rubber grommet at the bottom of the TTK.



7. Attach the metal housing to the rear of the TTK with the (included) four 6-32 x 1/4 in. screws.



Install with the SMK-100

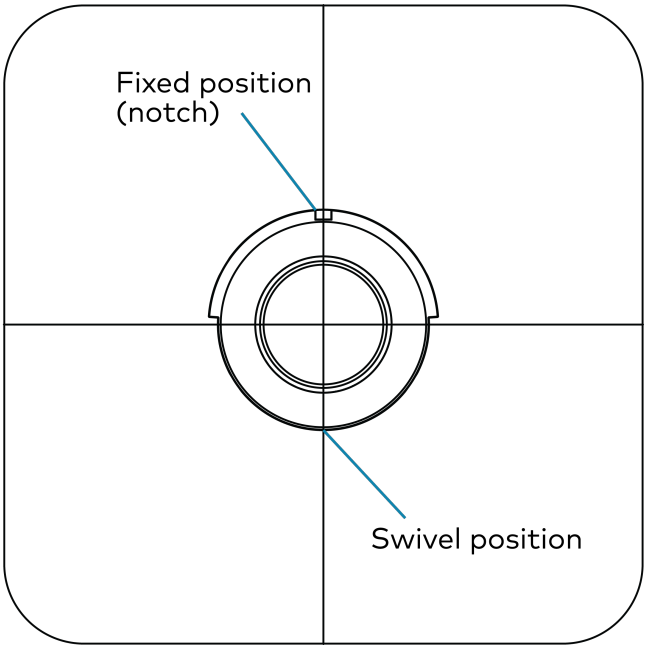
The TSW-1580-TTK is compatible with the SMK-100 swivel mount. Use the following steps to install the SMK-100:

> **NOTE:** Refer to the complete SMK-100 installation in the TS-880 and TS-1080 Product Manual for more information and a full list of provided hardware.

1. Prepare the mounting surface using the cutout template (provided with the SMK-100):
    a. Secure the included template to a mounting location that allows the device to pivot fully on the surface.
    b. Ensure the swivel position on the template faces where a user will control the touch screen.
2. Use the provided template to cut a 2 in. hole in the desired location.

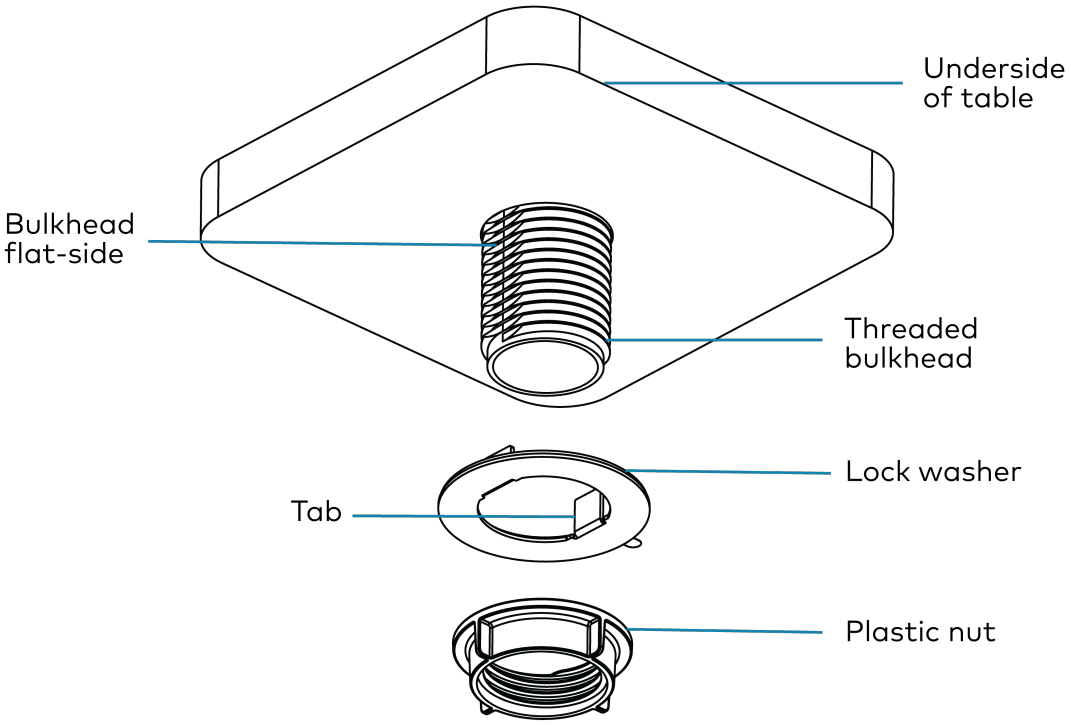
    > **NOTE:** The table must have a minimum thickness of 0.5 in and a maximum thickness of 2.5 in.

3. Orient the threaded bulkhead to ensure the swivel position is facing the user. Refer to the illustration below.



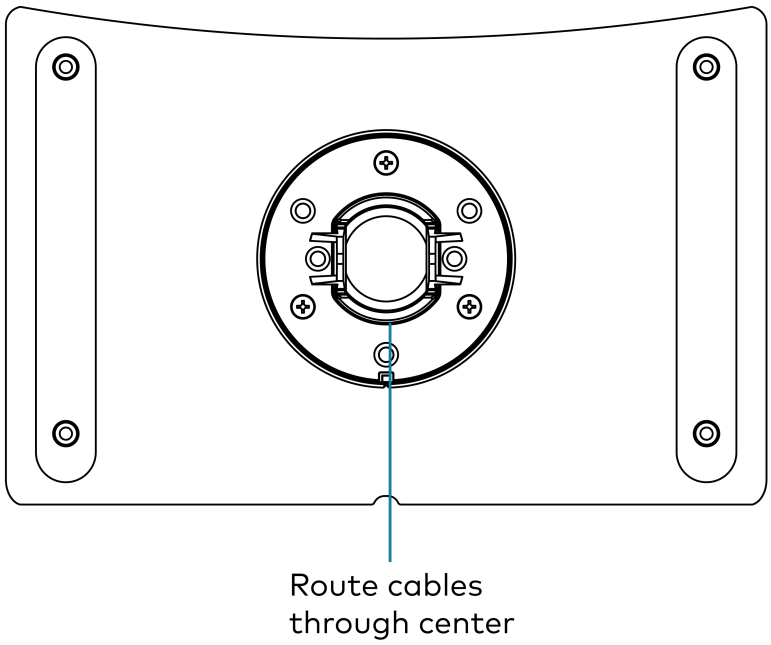
4. Remove the release liner from the lock washer and, under the table, slide the washer over the threaded bulkhead. Ensure the tabs point upward to the underside of the table. Refer to the illustration below.

> **NOTE:** The tabs must be parallel with the flat sides of the bulkhead. This position is permanantly fixed once the adhesive of the lock washer makes contact with the underside of the table.

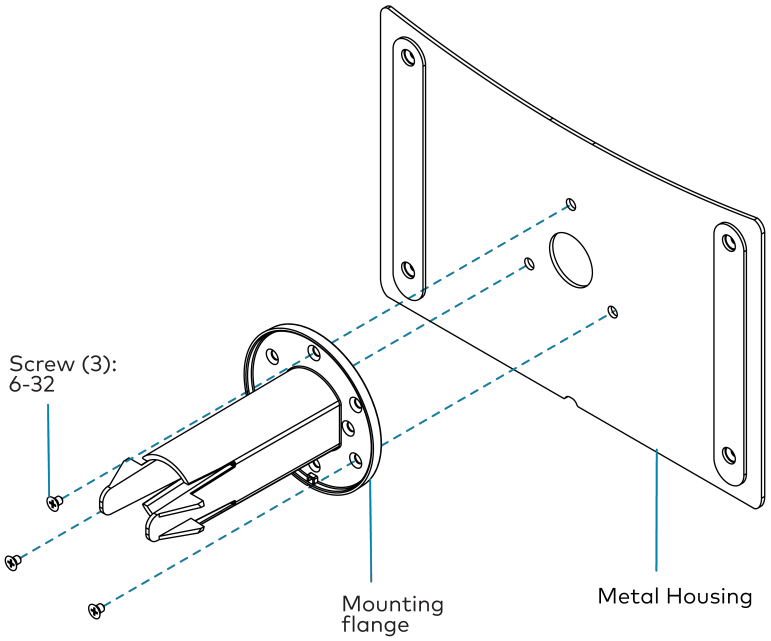


5. Thread the plastic nut onto the bulkhead by hand to fix the bulkhead to the table. Refer to the illustration under step 3.

6. Route all device cables through the center of the assembly.

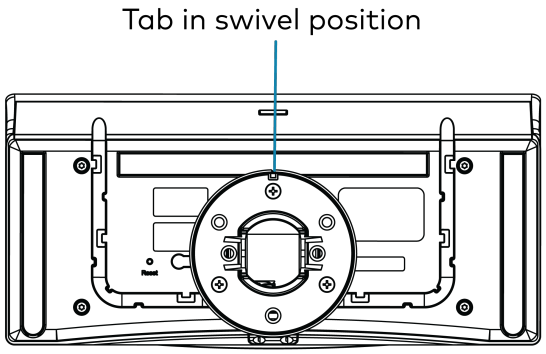


7. Attach the mounting flange of the SMK-100 to the underside of the TSW-1580-TTK metal cover with the three screws provided with the SMK-100. Refer to the illustration below.



8. The flange can be attached either to allow the panel to swivel 180 degrees or to lock the device into a fixed position. Position the tab forward facing on the device for the swivel position and position the tab on the rear to fix the panel. Refer to the image below.

   > **NOTE:** When the tab is rear facing on the device, it is intended to be seated in the notch of the bulkhead. The fixed notch is noted on the provided template.



9. Insert the TSW-1580-TTK and mounting flange assembly into the threaded bulkhead to complete installation.

TSW-1580-WMK Installation

The 80 Series TSW-1580-WMK wall mount kits provide mounting solutions for postconstruction TSW-1580 installations.

Use the following procedure to install the WMK into drywall, paneling, or a tabletop surface.

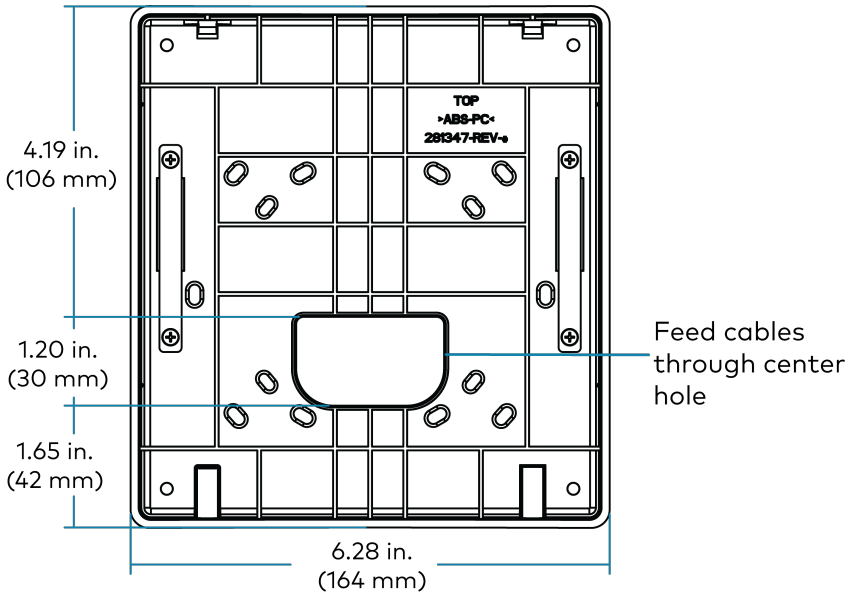
In the Box

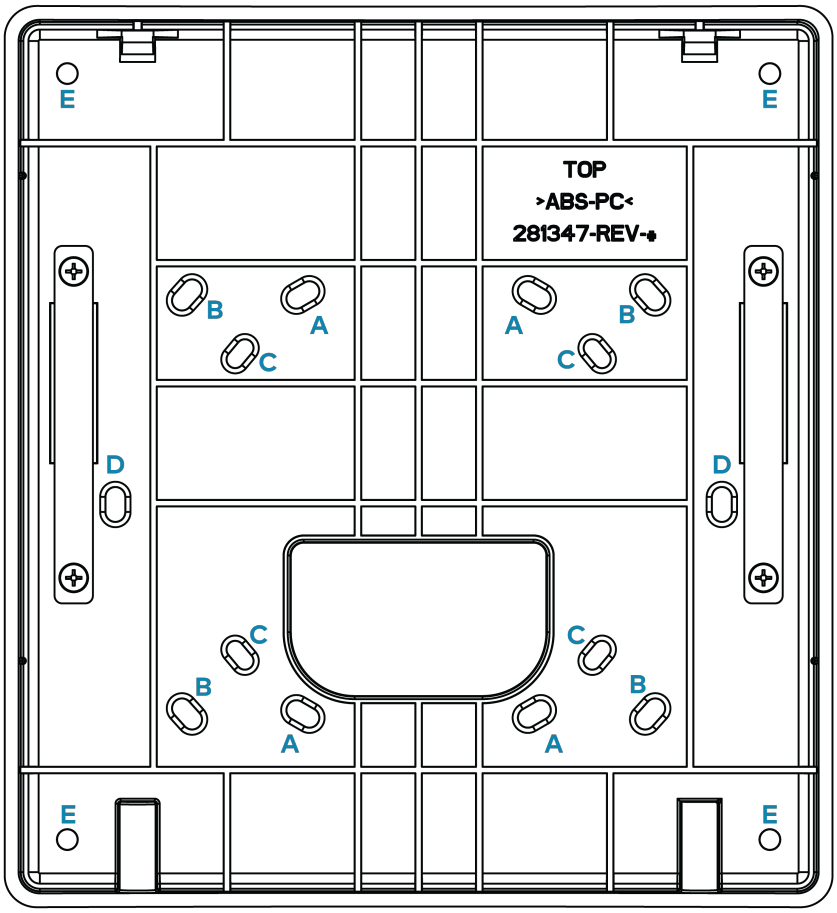
Qty.	Description
1	TSW-1580-WMK, Wall Mount Kit for TSW-1580

	Additional Items
1	Bracket, Plastic with Magnet (4538973)
2	Screw, 3 x 25 mm., Steel, Pan Head (2049589)

Install the WMK

1. Choose a mounting location that is free of any wiring, studs, or other obstructions. Make a small hole in the surface near the center of the chosen location to verify that it is suitable for mounting. Refer to the dimensions and parameters below when creating an opening in the mounting surface.



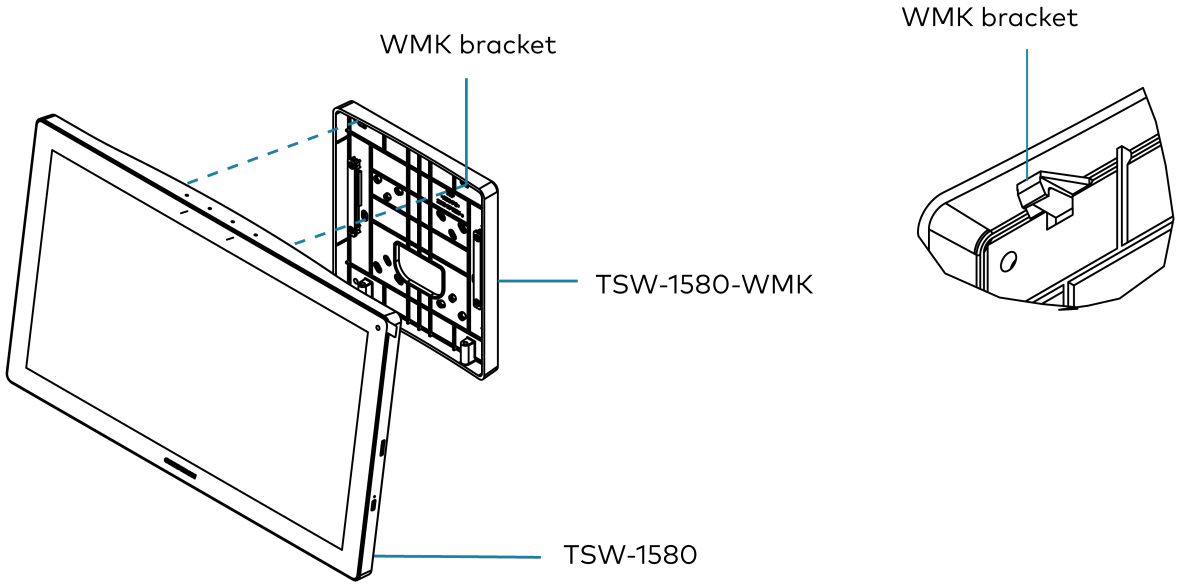


LEGEND:
A: For 2 gang box
B: For 3 gang box
C: For 1 gang Euro box
D: For UK installations
E: For direct to wall

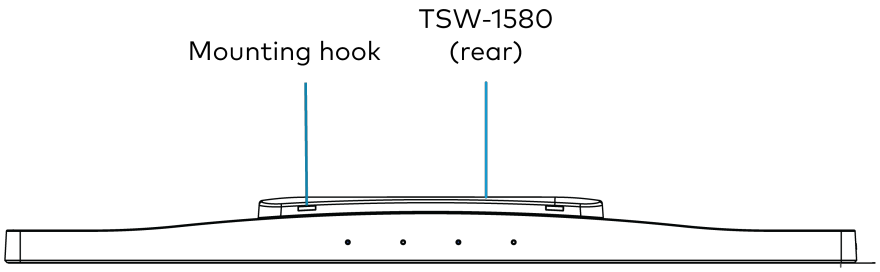
2. Secure the WMK bracket to the wall using screws or fasteners applicable to the specific mounting surface (not included).

Attach the Touch Screen

1. Route all necessary cables through the mounting bracket and connect to the touch screen.
2. Angle the touch screen towards the WMK and use the mounting hooks on the rear of the touch screen to hook onto the two WMK brackets.

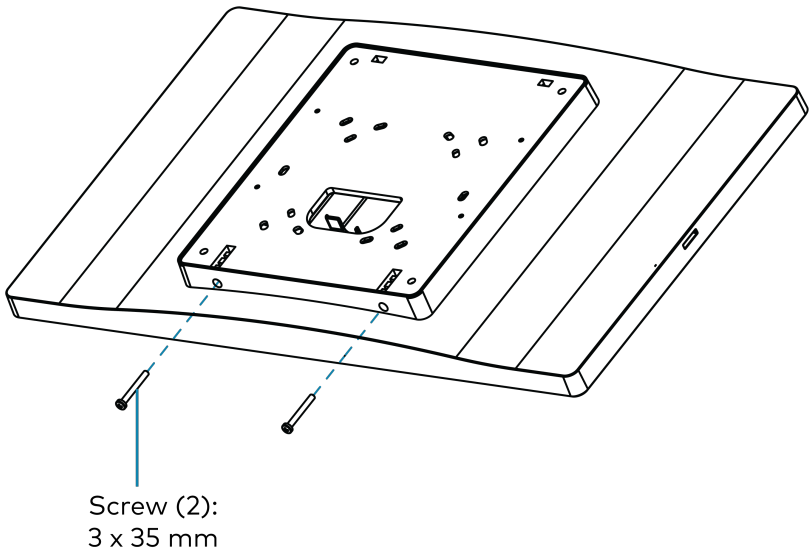


TSW-1580 Top View



3. Push the touch screen gently into the WMK so the rear housing of the TSW-1580 magnetically snaps into the center opening of the wall mount.

4. Secure the touch screen to the WMK with two 3 x 25 mm screws (included) on the bottom of the WMK. Refer to the illustration below.



Configuration

Prior to configuration, ensure the device is running the latest firmware. Refer to Initial Setup on page 139.

This section provides the following information:

- Initial Setup
- Web Configuration
- Local Configuration
- Application Selection

Initial Setup

Use the following procedures to set up the touch screen prior to regular operation.

Complete the Setup Wizard

When power is applied for the first time, the touch screen may take up to two minutes to boot.

The touch screen provides a built-in setup wizard that is displayed after first applying power to the touch screen or after a restore. The setup wizard is used to configure various touch screen settings required for operation. After completing the setup wizard, device settings for the touch screen may be configured using the built-in settings screens, the web configuration interface, or XiO Cloud. For more information on configuring the touch screen, refer to Configuration on page 138.

Each screen of the setup wizard is described in the sections that follow.

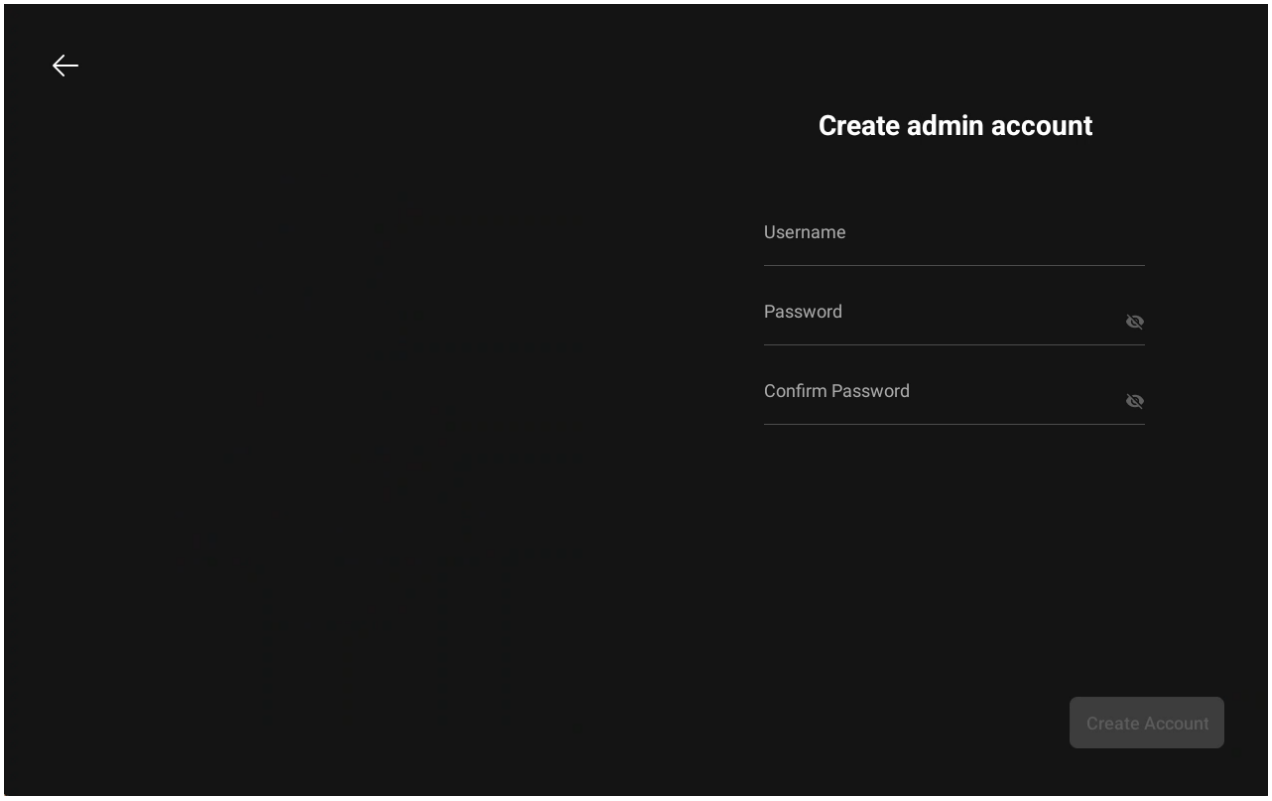
> **NOTE:** If directly connecting to the Collab Compute through PoE+, setup can be completed on the Collab Compute. Refer to the Collab Compute Product Manual for more information.

Create an Admin Account

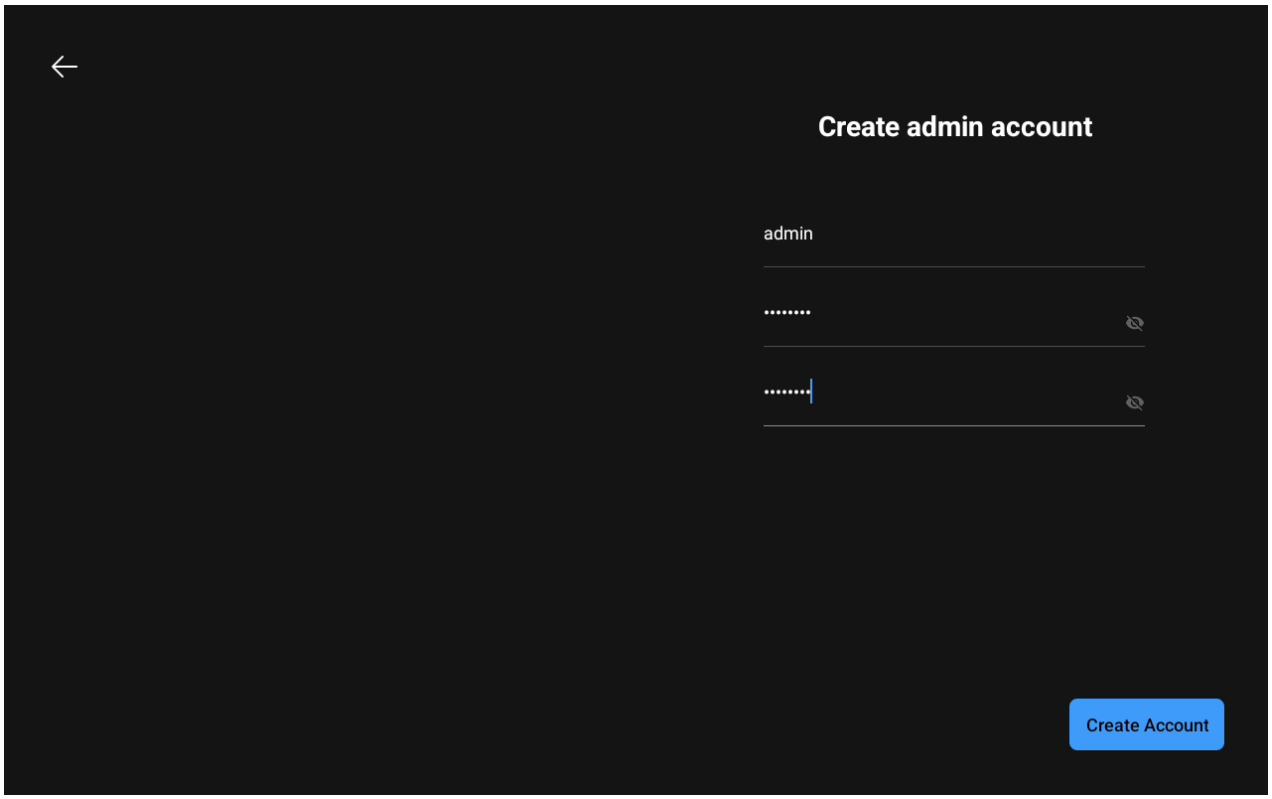
The first time the web configuration interface is accessed, a page is displayed asking the user to create an admin account.

To create an admin account:

1. Enter a username and password for the admin account in the appropriate text fields.



2. Select **OK** to create the admin account. The Setup Wizard refreshes to show the standard login page.



3. Re-enter the credentials created in step 1 and select **Sign In**.

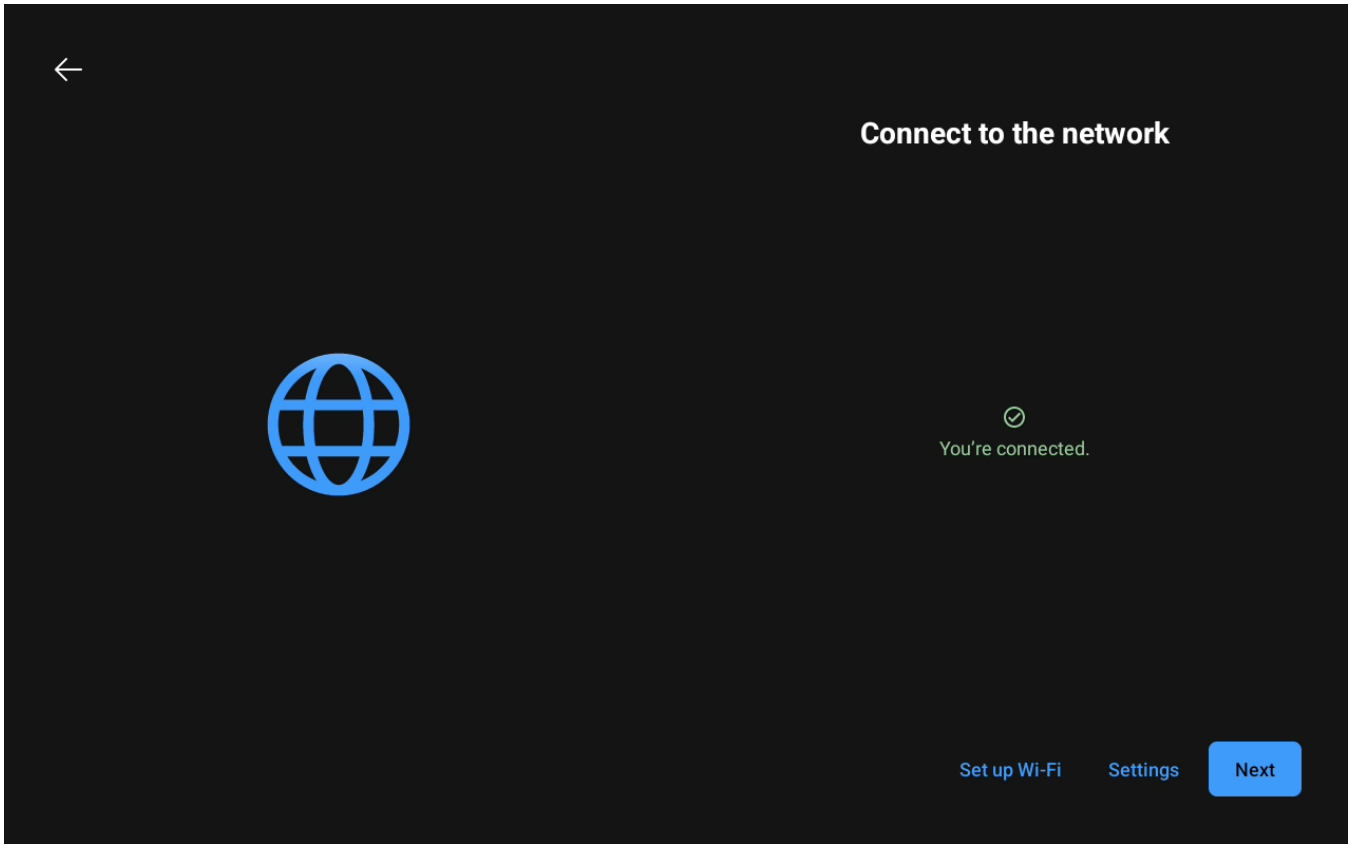
> **NOTE:** The username and password must also be entered when connecting from Crestron Toolbox.

Connect to a Network

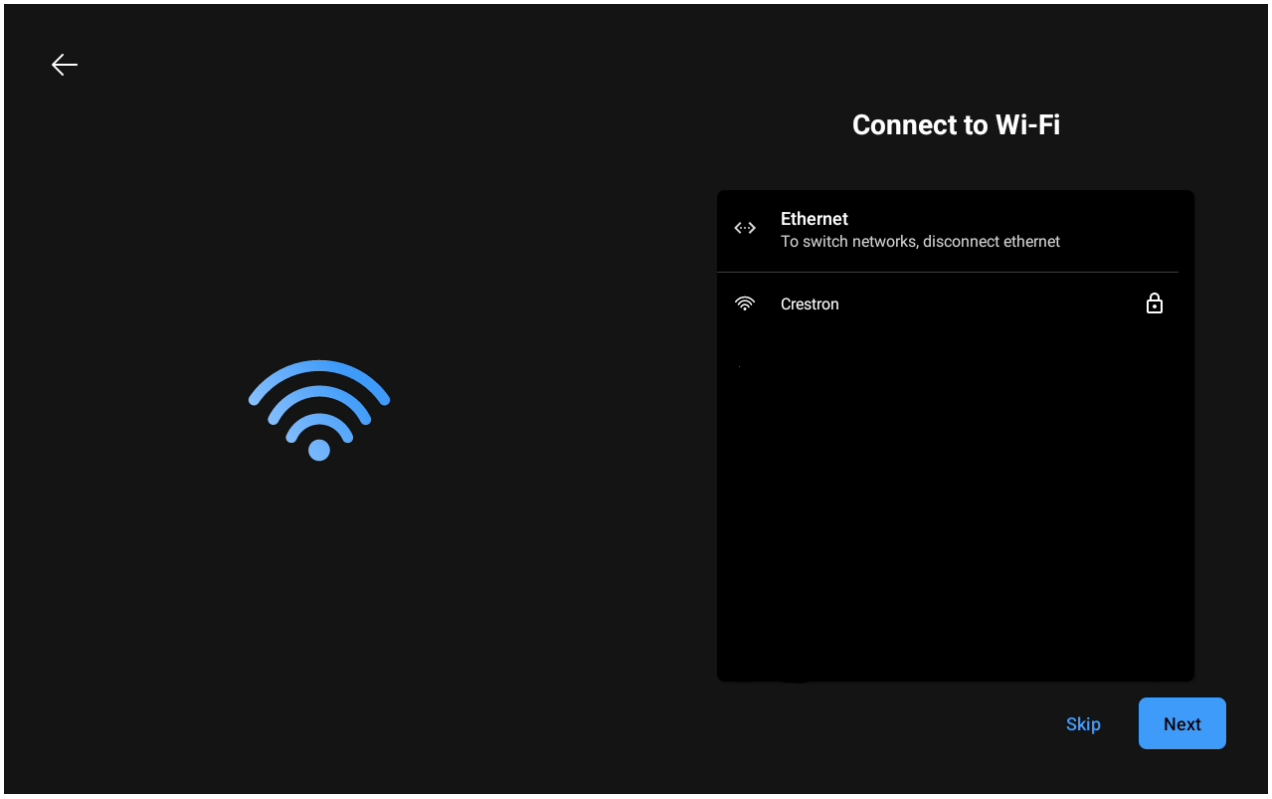
If using a LAN connection, network settings will connect automatically, displaying the green **You're connected** message.

Refer to Web Configuration on page 148 for more information on how to set up network settings through the touch screen IP address or XiO Cloud.

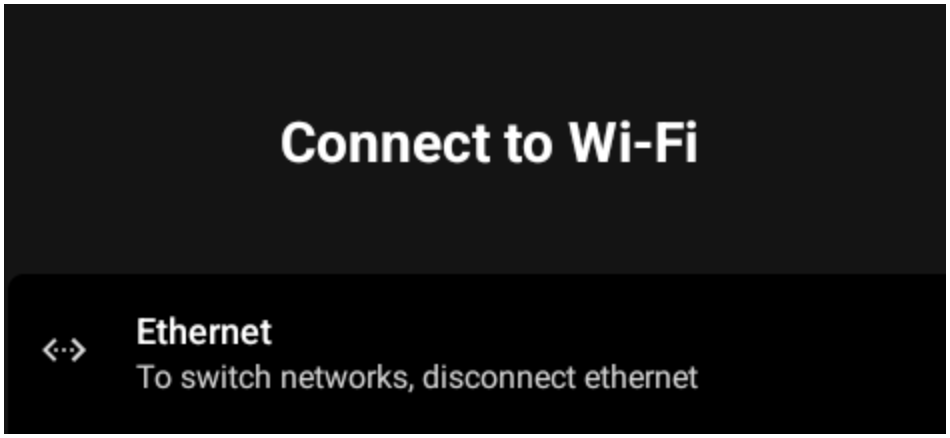
To set network and Wi-Fi settings:



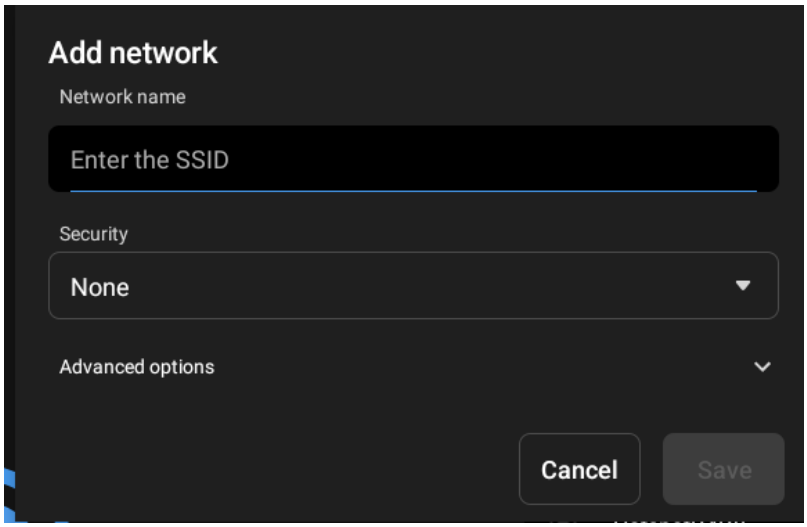
1. Select the **Set up Wi-Fi** button at the bottom of the screen.
2. Select a Wi-Fi network and complete the required **Network Settings** fields.



> **NOTE:** Wi-Fi only connects when there is no direct connection or link via the Ethernet port.



a. Select **Add network** and enter desired network details.

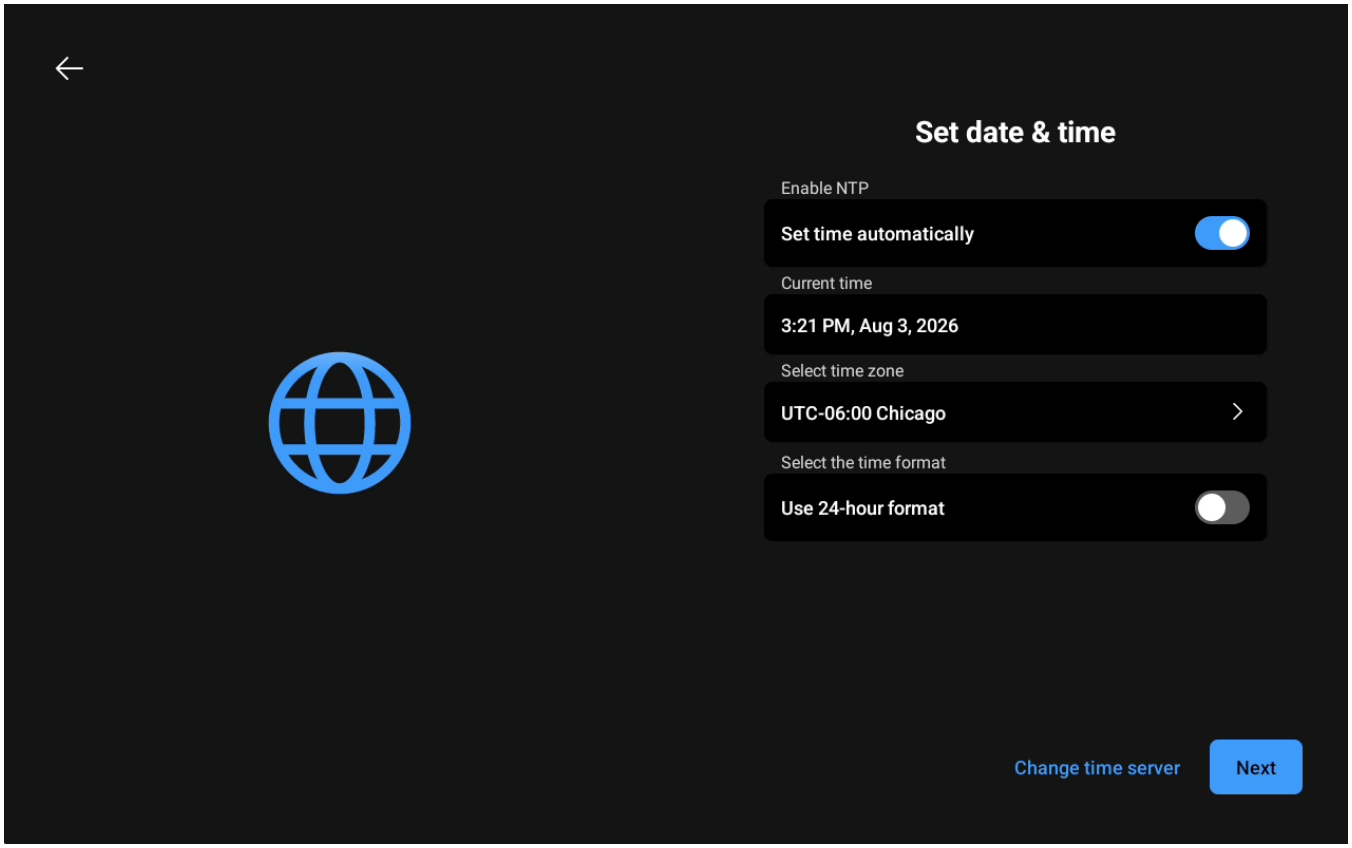


b. Select **Save**.

Set the Time Zone

The time zone can also be set from the web configuration interface using either the touch screen IP address or the XiO Cloud service. Refer to Web Configuration on page 148 for more information.

To set the time zone:

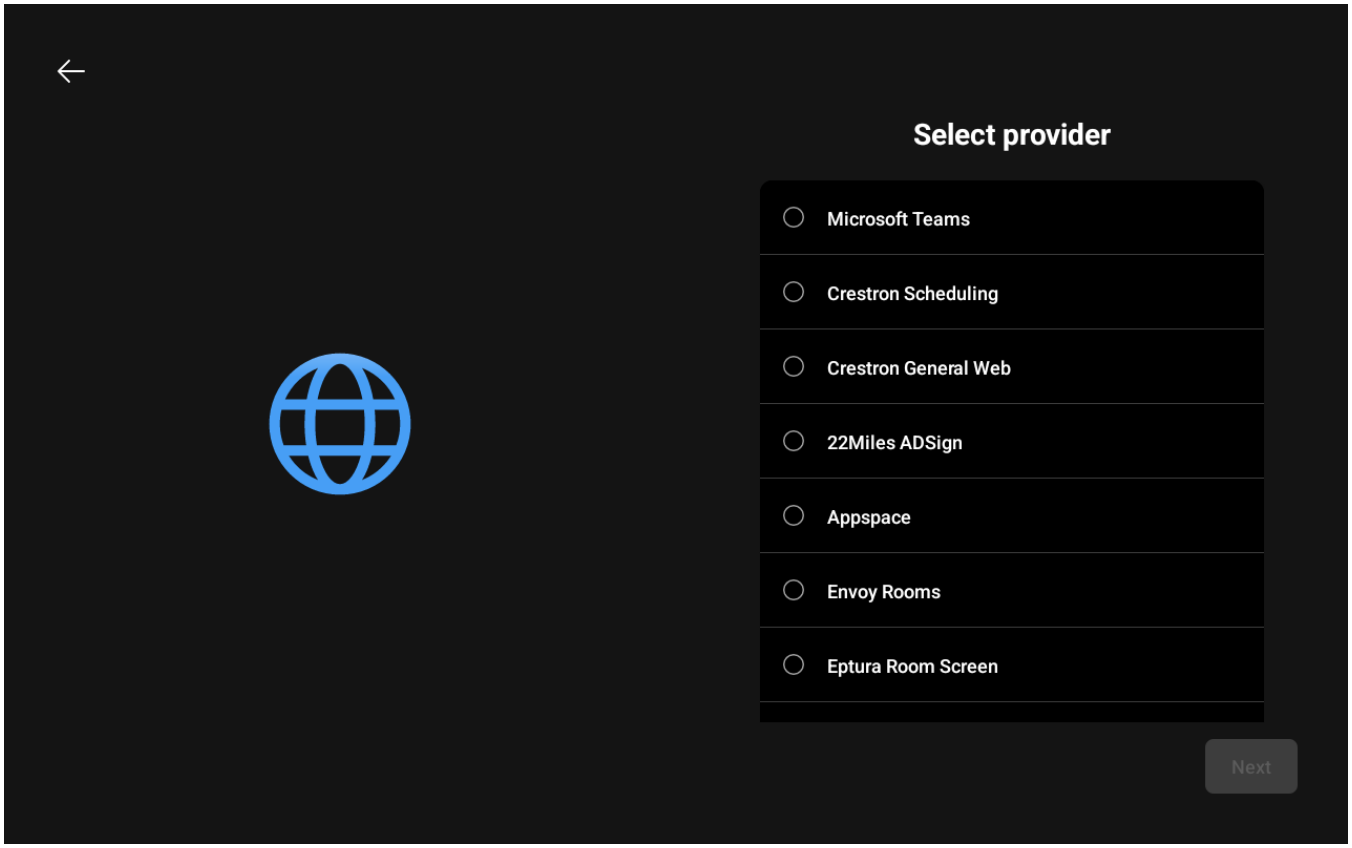


1. Turn on the **Enable NTP** toggle to set time automatically.
2. Edit the date and time manually by selecting **Current time**.
3. Select the time zone where the touch screen will be used from the **Select time zone** drop-down menu.
4. Turn **Select the time format** on or off to use the touch screen in 24 hour or 12 hour format, respecitvely.
5. Select **Next**.

Select an Application

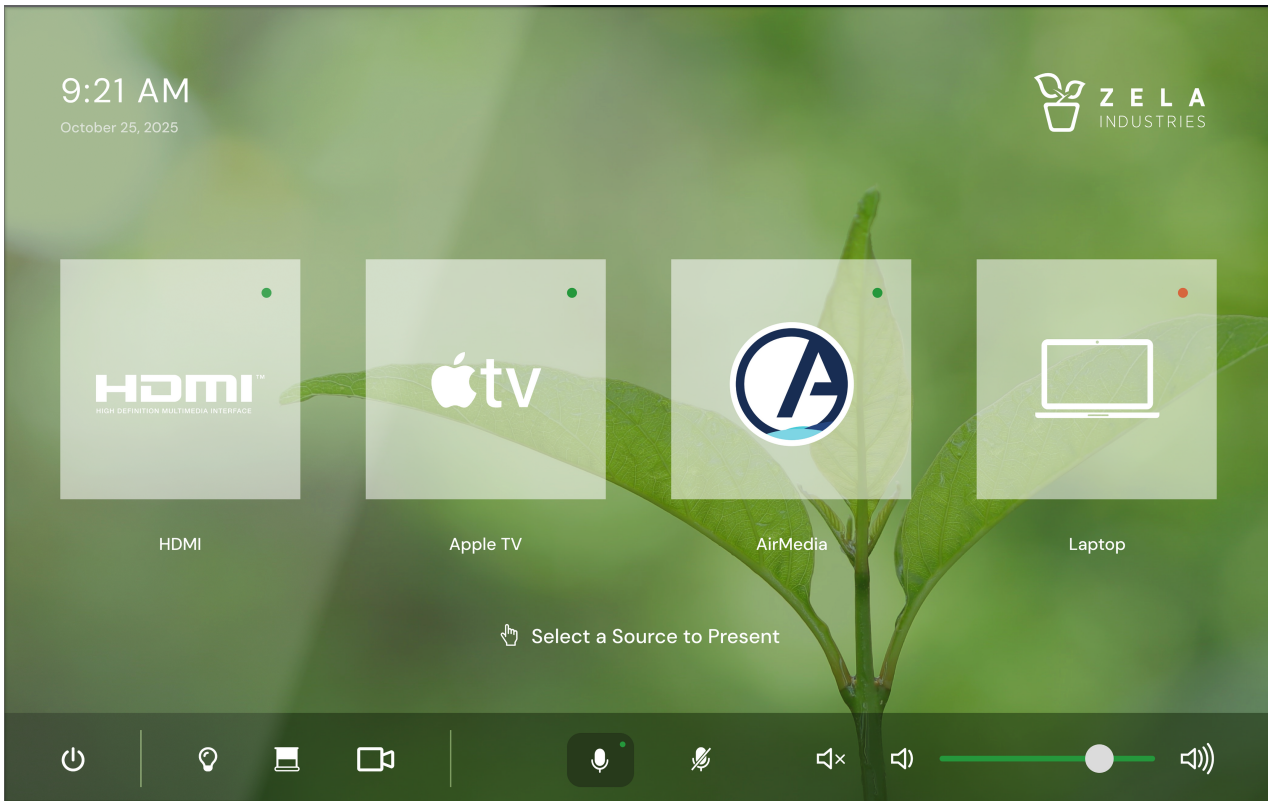
The touch screen ships with various built-in applications.

To select a touch screen application:



1. Select the desired touch screen application from the displayed menu. Select **Next**.
2. Configure any app-specific settings as required.

3. The touch screen restarts to display the user interface for the selected application.



Access the Device Settings Screens

To access the built-in settings screens, place five fingers on the display and hold for 15 seconds.

Use the settings screens to configure various settings for the touch screen. The user must log into an admin account to access administrator level settings screens. Refer to Local Configuration on page 193 for more information on the device settings screens.

Access the Web Configuration Interface

The touch screen provides a web configuration interface that is used to view and configure various touch screen settings and to select an application. The interface can be accessed using the touch screen IP address or the XiO Cloud® service.

Touch Screen IP Address

To access the web configuration interface using the touch screen IP address:

1. Ensure that the touch screen is connected to the network.
2. Use the Device Discovery tool in Crestron Toolbox™ software to discover the touch screen and its IP address on the network.
3. Enter the touch screen IP address into a web browser.

XiO Cloud

The XiO Cloud® service allows supported devices across an enterprise to be managed and configured from one central and secure location in the cloud. Supported Crestron® devices are configured to connect to the service after completing the setup wizard.

If registering with XiO Cloud, scan the QR code to link the touch screen to your XiO Cloud account. For more information, refer to the Device Assistant page.

Use of the service requires a registered XiO Cloud account. To register for an XiO Cloud account, refer to www.crestron.com/Support/Tools/Licensing-Registration/XiO-Account-Registration.

To connect the device to the XiO Cloud service:

1. Record the MAC address and serial number that are labeled on the shipping box or the device. The MAC address and serial number are required to add the device to the XiO Cloud service.

   > **NOTE:** If the device has multiple MAC addresses, use the wired Ethernet MAC address.

2. Log in to your XiO Cloud account at portal.crestron.io.
3. Claim the device to the XiO Cloud service as described in the XiO Cloud User Guide.

Web Configuration

The TSW-80 Series may be monitored and configured using their web configuration interface. The interface can be accessed via the device IP address as described in Access the Web Configuration Interface on page 146.

> **NOTE:** A similar version of the web configuration interface is provided within the XiO Cloud service. Navigate to the room associated with the device in the XiO Cloud environment tree to view the device status and settings. Additionally, certain settings can be configured for multiple devices at once at the group level. For more information, refer to the XiO Cloud User Guide.

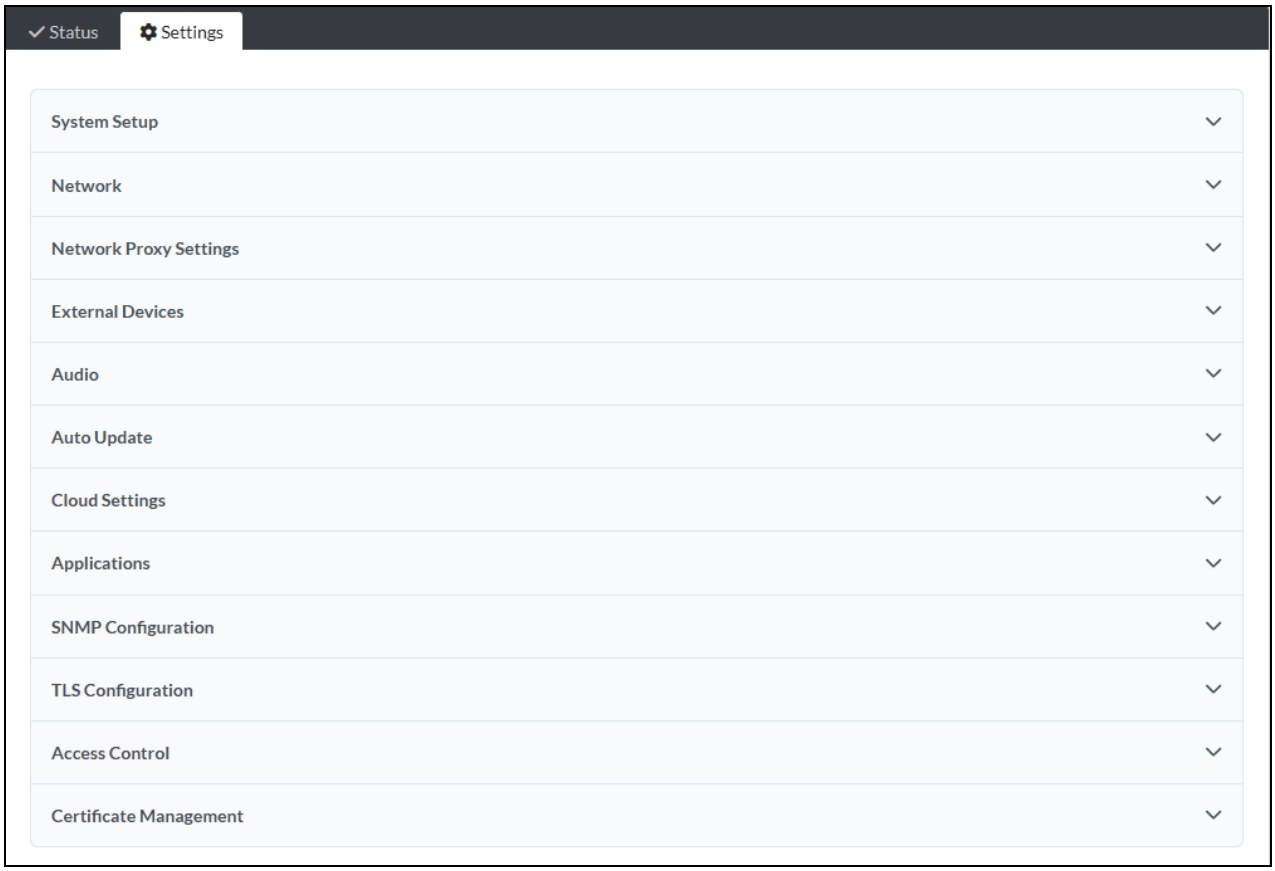
The **Status** tab is shown with the **Device** accordion open by default. The web configuration interface is shown below:

The web configuration interface provides the following tabs for navigating the interface:

- **Status**: Used to monitor device status. Refer to Status on page 153.



- **Settings**: Used to configure device settings. Refer to Settings on page 160.



> **NOTE:** Some device settings may be displayed or hidden depending on the selected application mode.

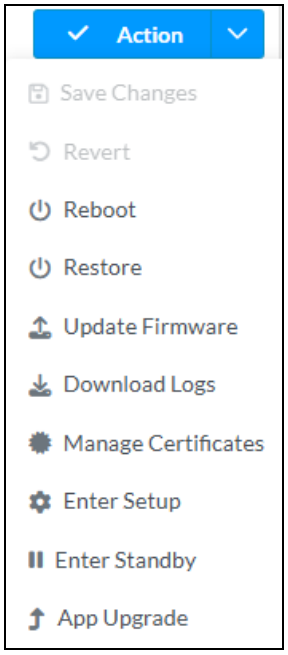
The following controls are also provided on the top right of the web configuration interface:

- Use the **Action** drop-down menu to perform various configuration actions. For more information, refer to Action Menu on page 150.
- Select the profile button to view the active device user and to sign out of the web configuration utility.

Each section of the web configuration interface is described in the sections that follow.

Action Menu

The configuration interface provides an **Action** drop-down menu on the top right of the page. The **Action** menu may be accessed at any time.



Once any changes have been made to the touch screen configuration, the **Action** button changes to a **Save Changes** button. Select **Save Changes** to save changes to the configuration settings.

If a restart is required after changes have been saved, a dialog box is displayed asking whether the restart should be performed. Select **Yes** to restart the device or **No** to cancel the restart.

The **Action** menu provides the following selections.

Save Changes

Select **Save Changes** to save any changes made to the configuration settings.

Revert

Select **Revert** to revert the touch screen back to the last saved configuration settings.

Reboot

Select **Reboot** to restart the touch screen.

After **Reboot** is selected, a dialog box is displayed asking whether the touch screen should be restarted. Select **Yes** to restart the device or **No** to cancel the restart.

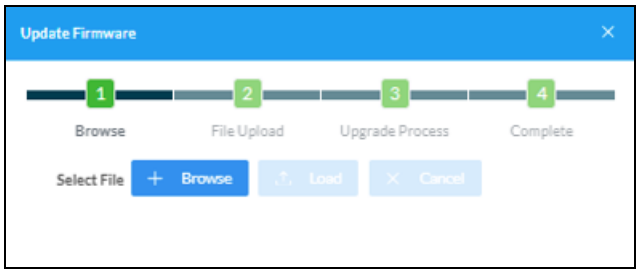
Restore

Select **Restore** to restore the touch screen configuration settings to their default values.

After **Restore** is selected a dialog box is displayed asking whether the device settings should be restored. Select **Yes** to restore the settings or **No** to cancel the restore.

Update Firmware

Select **Update Firmware** to upgrade the touch screen firmware manually with a downloaded PUF (package update file).



To upload a firmware PUF through the web configuration interface:

> **NOTE:** Visit the appropriate device product page or www.crestron.com/Support/Resource-Library to download the latest firmware PUF.

1. Select **Browse**, and then navigate to the firmware PUF on the host computer.
2. Select the firmware PUF, and then select **Open**.
3. Select **Load** to load the PUF to the touch screen. The upload progress is shown in the dialog box.
4. Once the touch screen has completed the firmware upgrade, select **OK**.

Select the **x** button to close the **Firmware Upgrade** dialog box at any time during the upgrade process. Selecting the **x** button before the PUF is uploaded to the touch screen cancels the upgrade.

Download Logs

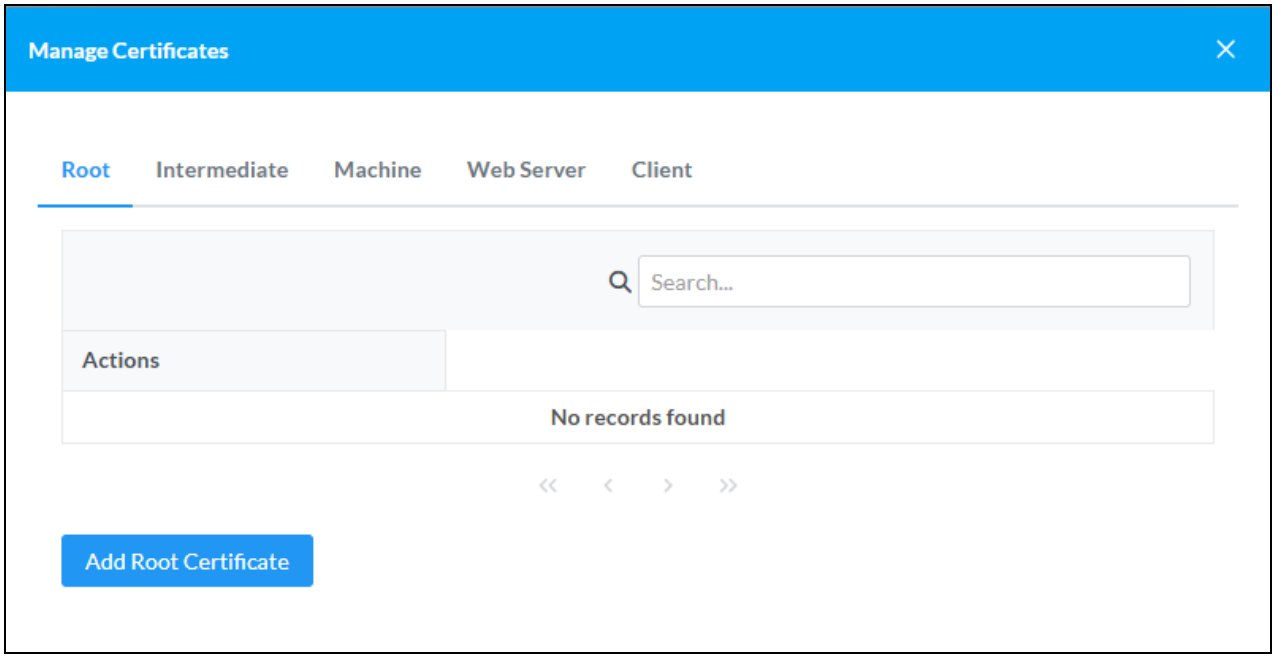
Select **Download Logs** to download the touch screen message logs for diagnostic purposes. The message files download as a compressed .tgz file. Once the compressed file is downloaded, extract the message log files to view them.

Manage Certificates

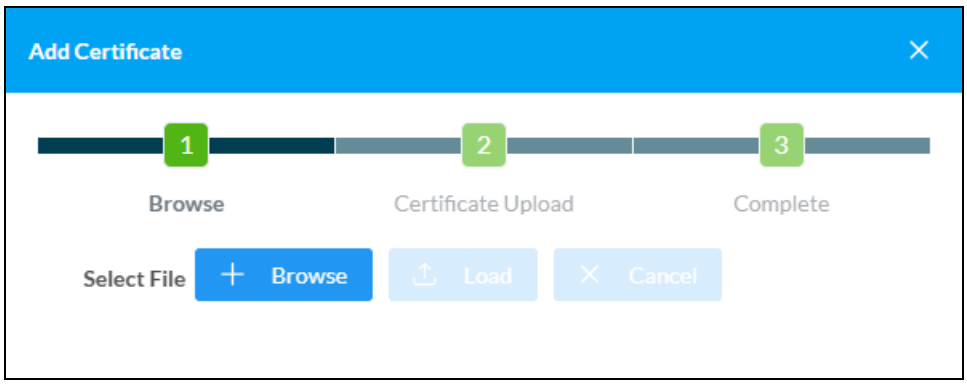
Select **Manage Certificates** to manage any certificates that are installed on the touch screen.

To add a certificate:

1. Navigate to the applicable tab (**Root**, **Intermediate**, **Machine**, **Web Server**, or **Client**) and select **Add Certificate**.



2. Select **Browse**, and then navigate to the desired certificate on the host computer.



3. Select the certificate, and then select **Open**.
4. Select **Load** to load it to the touch screen. The upload progress is shown in the dialog box.
5. Once the touch screen has completed the certificate upload, select **OK**.

Enter Setup

Select **Enter Setup** to have the touch screen enter its built-in setup interface.

Enter Standby

Select **Enter Standby** to force the touch screen to enter standby mode.

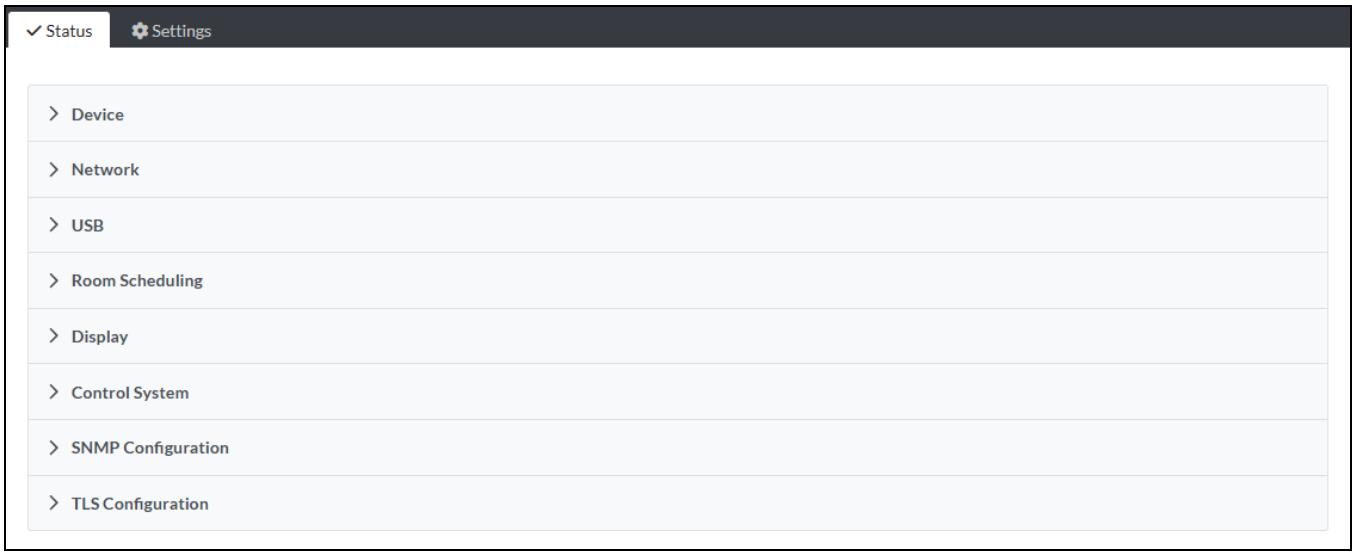
App Upgrade

Select **App Upgrade** to update the currently selected application. The update progress is shown in a pop-up window.

Once the update is complete, select **OK** to close the pop-up window.

Status

Select the **Status** tab on the top left of the configuration interface to display selections for viewing the status of device, network, and control system settings.

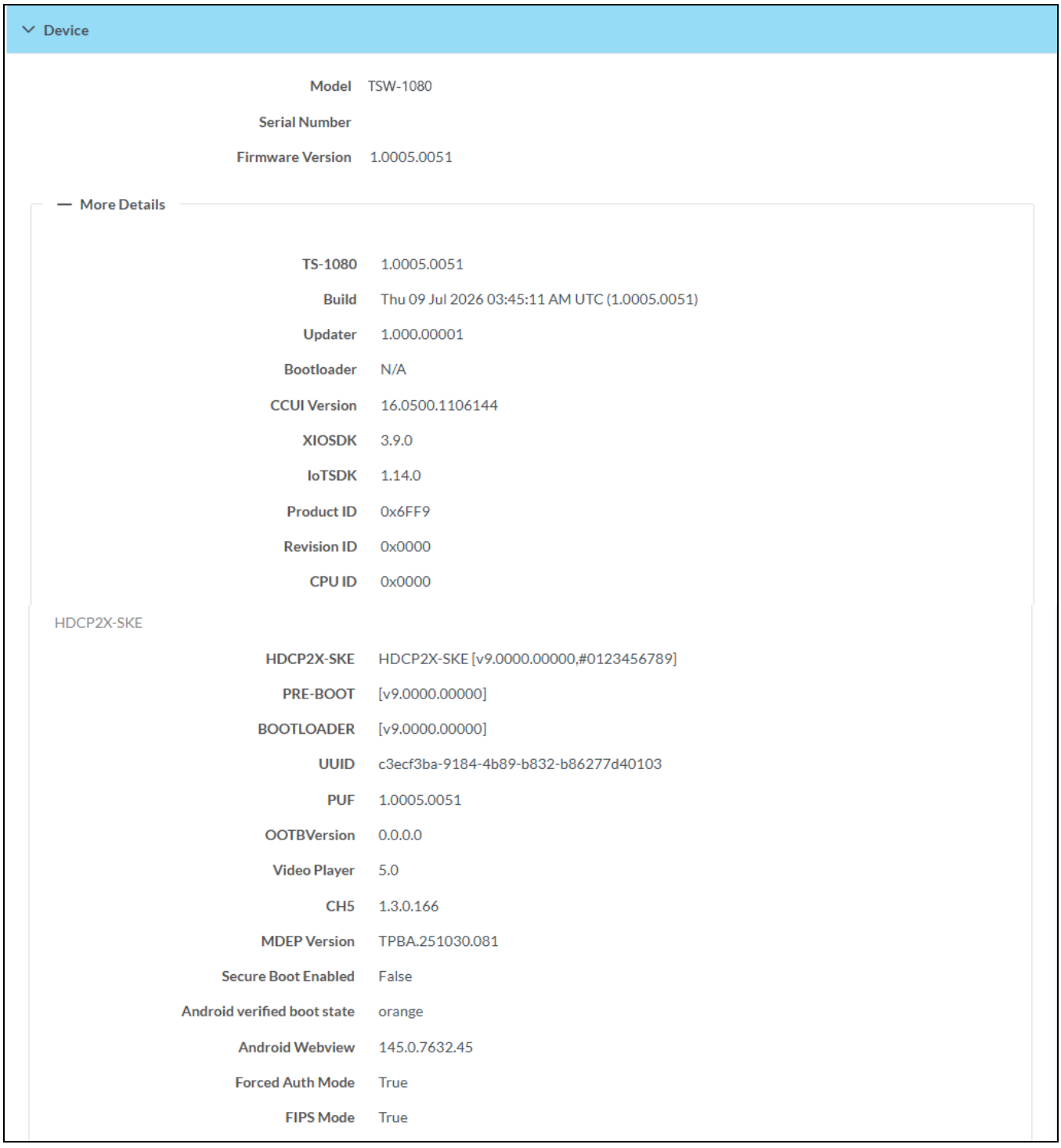


Select on a selection name to expand the selection. If the selection is expanded, select the selection name again to collapse the section.

Each selection is described in the sections that follow.

Device

Select **Device** to view general device information.



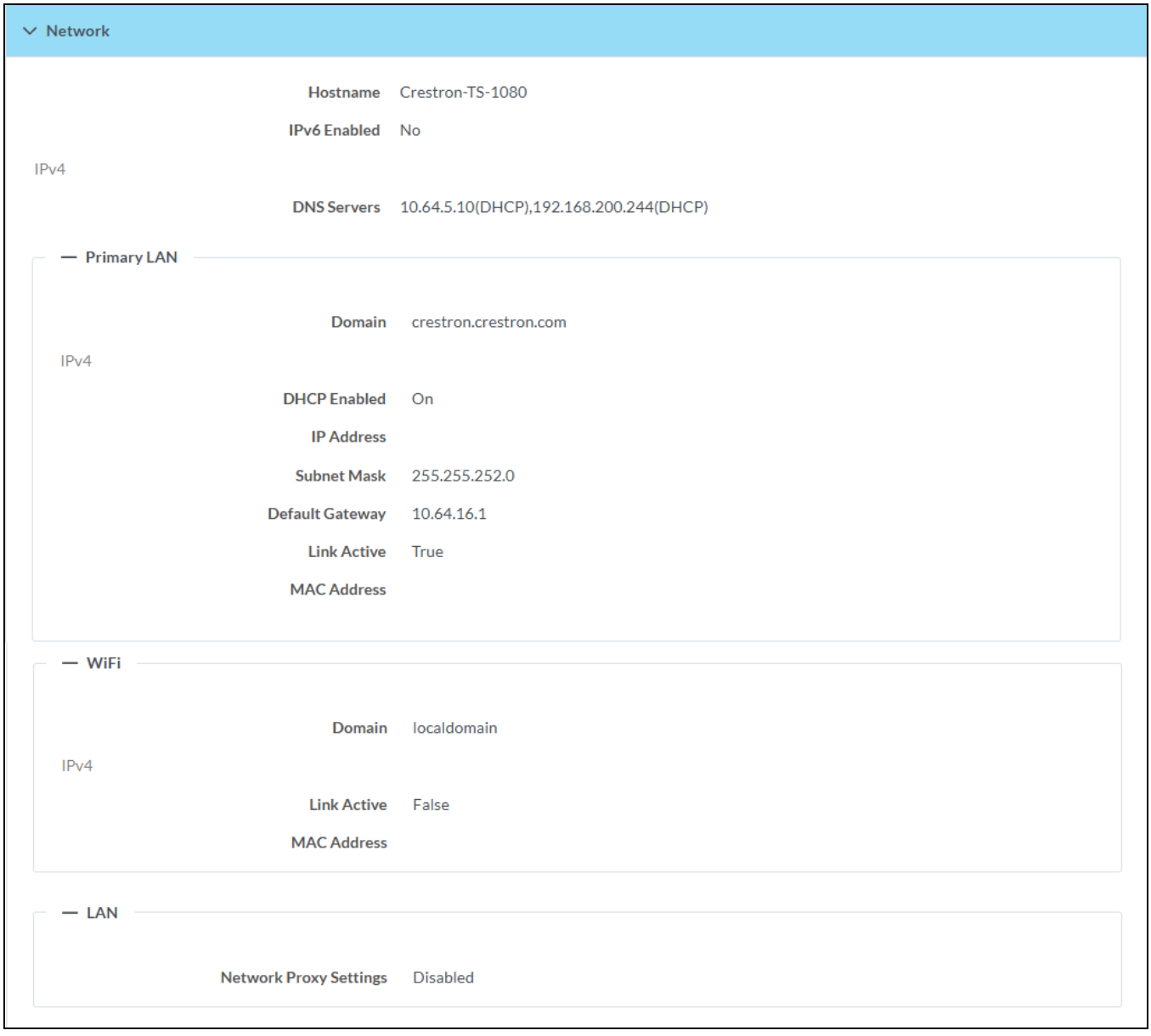
The following **Device** information is displayed:

- **Model:** The touch screen model name
- **Serial Number:** The touch screen serial number
- **Firmware Version:** The firmware version loaded onto the touch screen

Select **+ More details** at the bottom of the Device tab to display an expanded section that shows additional touch screen information. If **+ More Details** is selected, select **- Less details** to collapse the section.

Network

Select **Network** to view the status of the network settings for the touch screen.



The following Network information is displayed:

- **Host Name:** The touch screen host name
- **IPv6 Enabled:** Reports whether IPv6 addressing is turned on (**Yes**) or not (**No**)
- **DNS Servers:** The DNS (domain name server) addresses used to resolve the touch screen domain to an IPv6 address

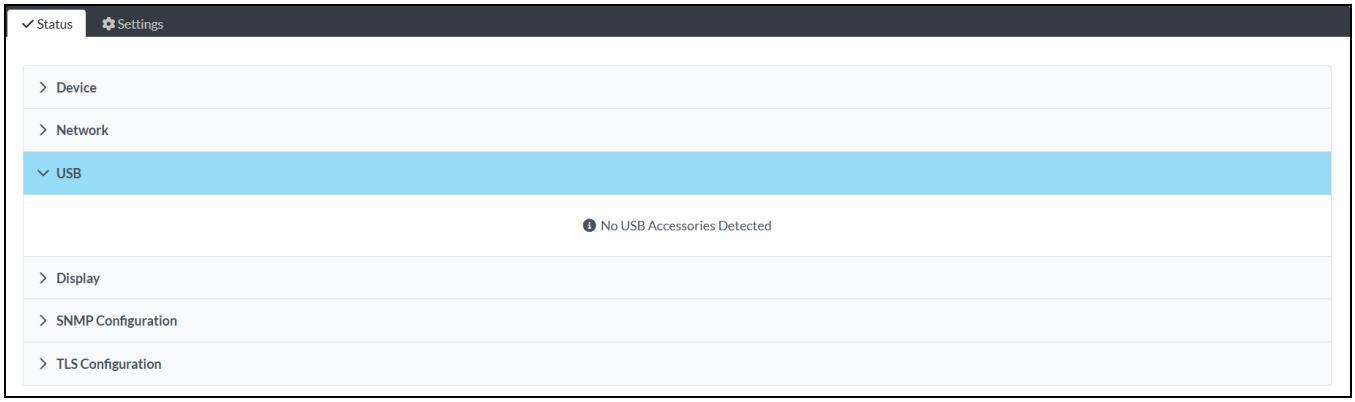
Select the **+** (plus) icon next to Primary LAN to display the following Ethernet settings:

- **Domain:** The touch screen domain name
- **IPv4:** Contains settings for IPv4 Ethernet addressing
    - **DHCP Enabled:** Reports whether the IPv4 Ethernet address is static (**Yes**) or dynamic (**No**)
    - **IP Address:** The touch screen IPv4 Ethernet address, shown only if an Ethernet connection is active
    - **Subnet Mask:** The touch screen subnet mask address, shown only if an Ethernet connection is active
    - **Default Gateway:** The gateway router address, shown only if an Ethernet connection is active
    - **Link Active:** Reports the status of the Ethernet connection (A **true** message indicates that the Ethernet connection is active, while a **false** message indicates that the Ethernet connection is inactive.)
    - **MAC Address:** The unique MAC (media access control) address for the Ethernet adapter
- Select the **+** (plus) icon next to **Wi-Fi** to display the following Wi-Fi network settings:
    - **Domain:** The Wi-Fi network domain name
    - **Link Active:** Reports the status of the Wi-Fi network connection (A **true** message indicates that the Wi-Fi network connection is active, while a **false** message indicates that the Wi-Fi network connection is inactive.)
    - **MAC Address:** The unique Wi-Fi network MAC (media access control) address

  Select the **+** (plus) icon next to **LAN** to display the following LAN settings:
    - **Network Proxy Settings:** Reports whether network proxy settings are turned on or off for the touch screen

USB

Select **USB** to view the status of a connected USB accessory.

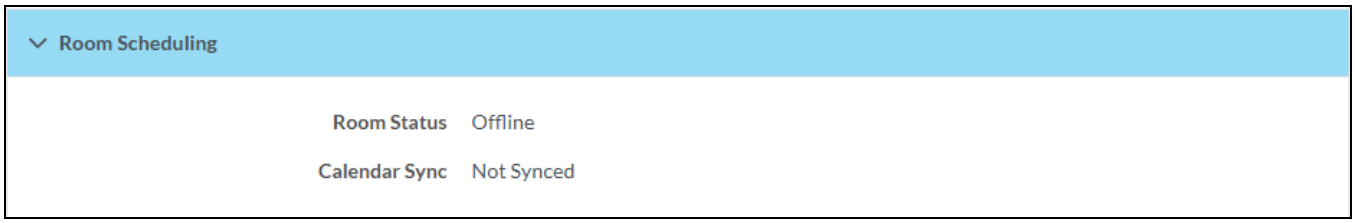


The following USB information is displayed (if a USB accessory is detected by the touch screen):

- **Accessory Connected:** The name of the connected accessory
- **Accessory Type:** The type of connected accessory

Room Scheduling

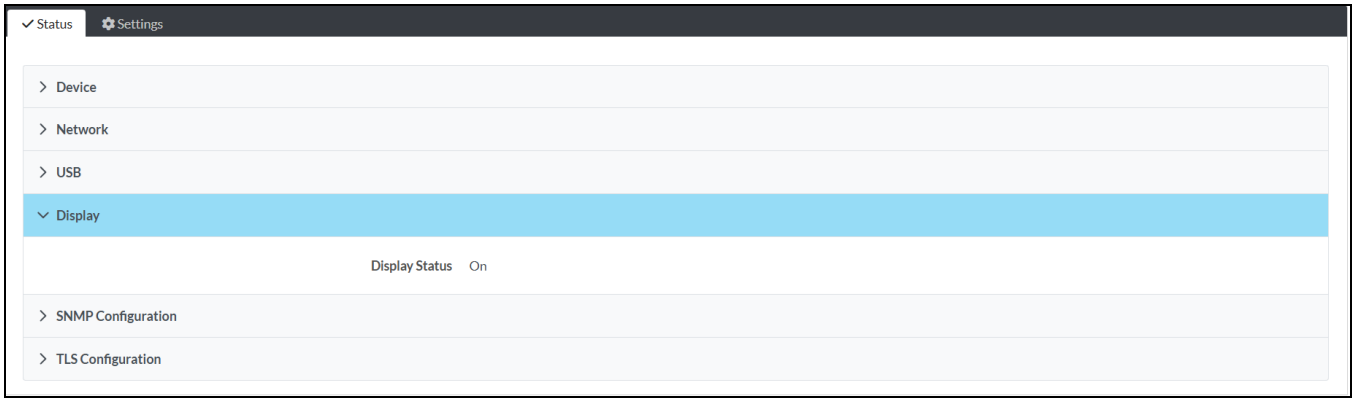
Select **Room Scheduling** to see the following information.



- **Room Status:** The online or offline status of the connected conference room
- **Calender Sync:** The status of the room and touch screen's calendar

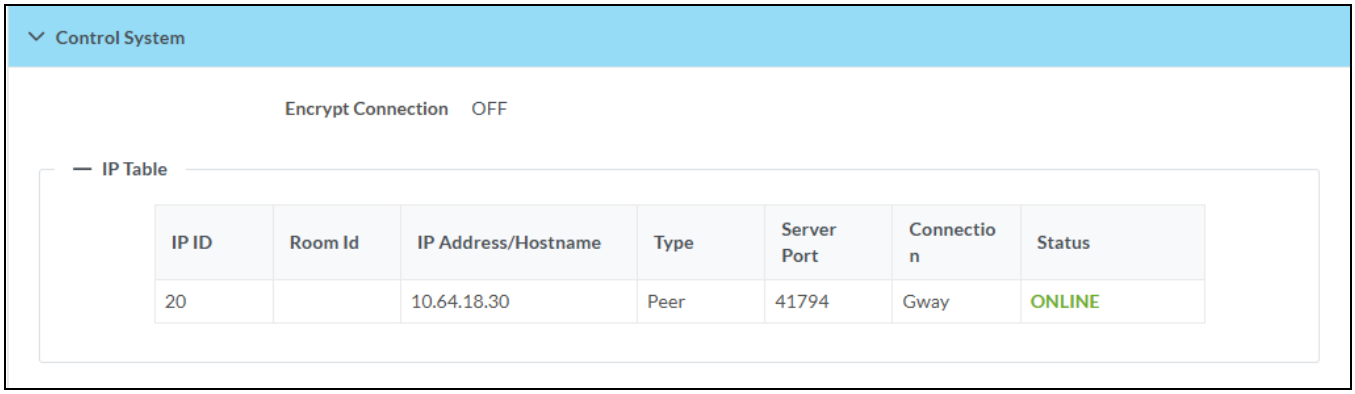
Display

Select **Display** to view the display status. The **Display Status** field indicates the display status (on or standby).



Control System

Select **Control System** to view the status of a connected control system.

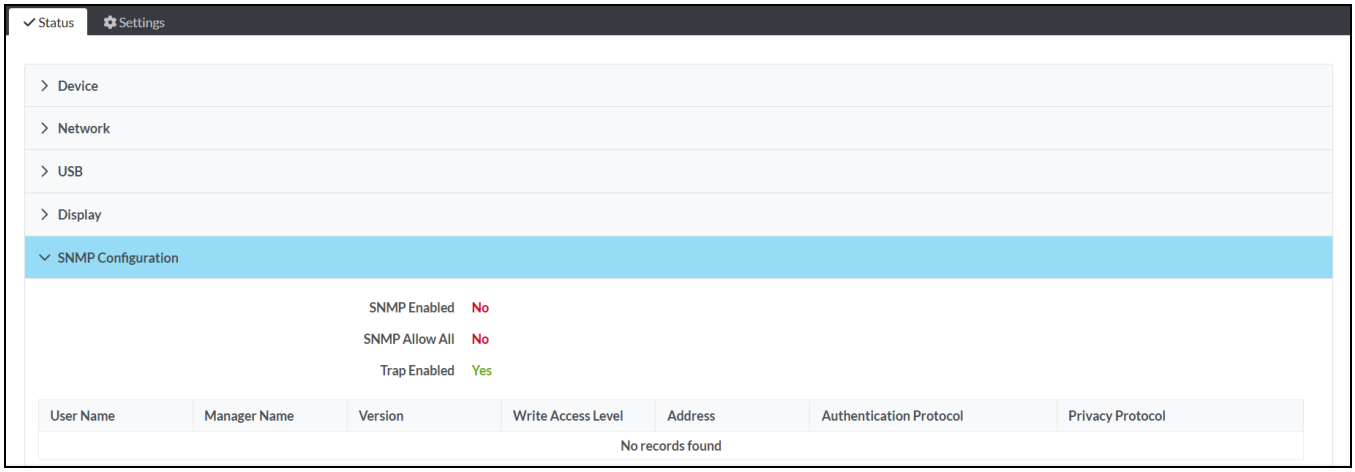


The following **Control System** information is displayed:

- **Encrypt Connection**: Indicates whether the connection between the control system and touch screen is encrypted
- **IP Table:** Displays the IP table information for the control system connection
- **IP ID:** The IP ID used to connect the touch screen to the control system
- **Room ID:** The control system room ID that the touch screen is associated with (for connections to the Crestron Virtual Control server-based control system)
- **IP Address/Hostname:** The control system IP address or host name
- **Type:** The control system connection type
- **Server Port:** The server port used for the connection
- **Connection:** The control system connection method
- **Status:** The control system connection status

SNMP Configuration

Select **SNMP Configuration** to view the status of the SNMP (Simple Network Management Protocol) configuration for the touch screen.



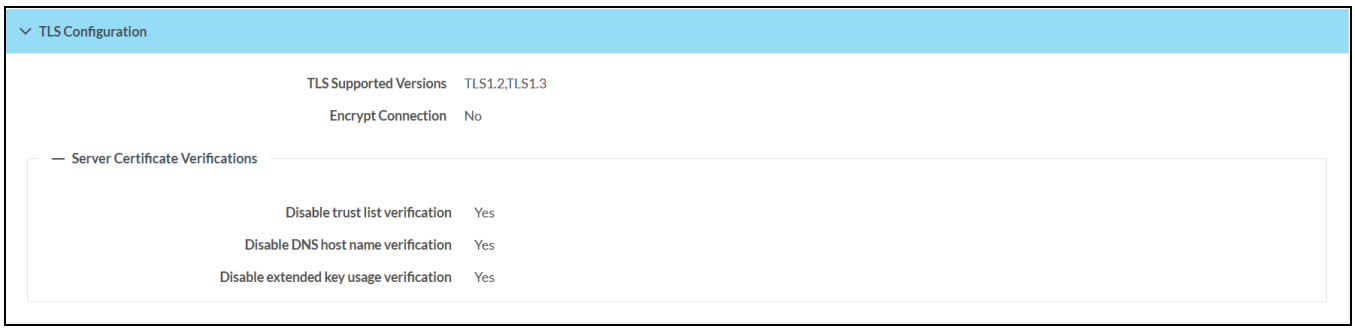
The following SNMP Configuration information is displayed:

- **SNMP Enabled:** Reports whether SNMP has been turned on for the touch screen **(Yes)** or not **(No)**
- **SNMP Allow All:** Reports whether the touch screen allows SNMP requests from all managers **(Yes)** or not **(No)**
- **Trap Enabled:** Reports whether SNMP trap notifications have been turned on **(Yes)** or not **(No)**

- Each SNMP user configured for the touch screen is displayed in a table with the following information:
    - **User Name:** The name of the SNMP user
    - **Manager Name:** The SNMP manager for the user
    - **Version:** The SNMP version set for the user
    - **Write Access Level:** Indicates whether the user has write level permissions (**true**) or read-only permissions (**false**)
    - **Address:** The IP address of the SNMP manager
    - **Authentication Protocol:** The authentication protocol used by the SNMP manager
    - **Privacy Protocol:** The privacy protocol used by the SNMP manager

TLS Configuration

Select **TLS Configuration** to view the TLS (Transport Layer Security) configuration settings for the touch screen.



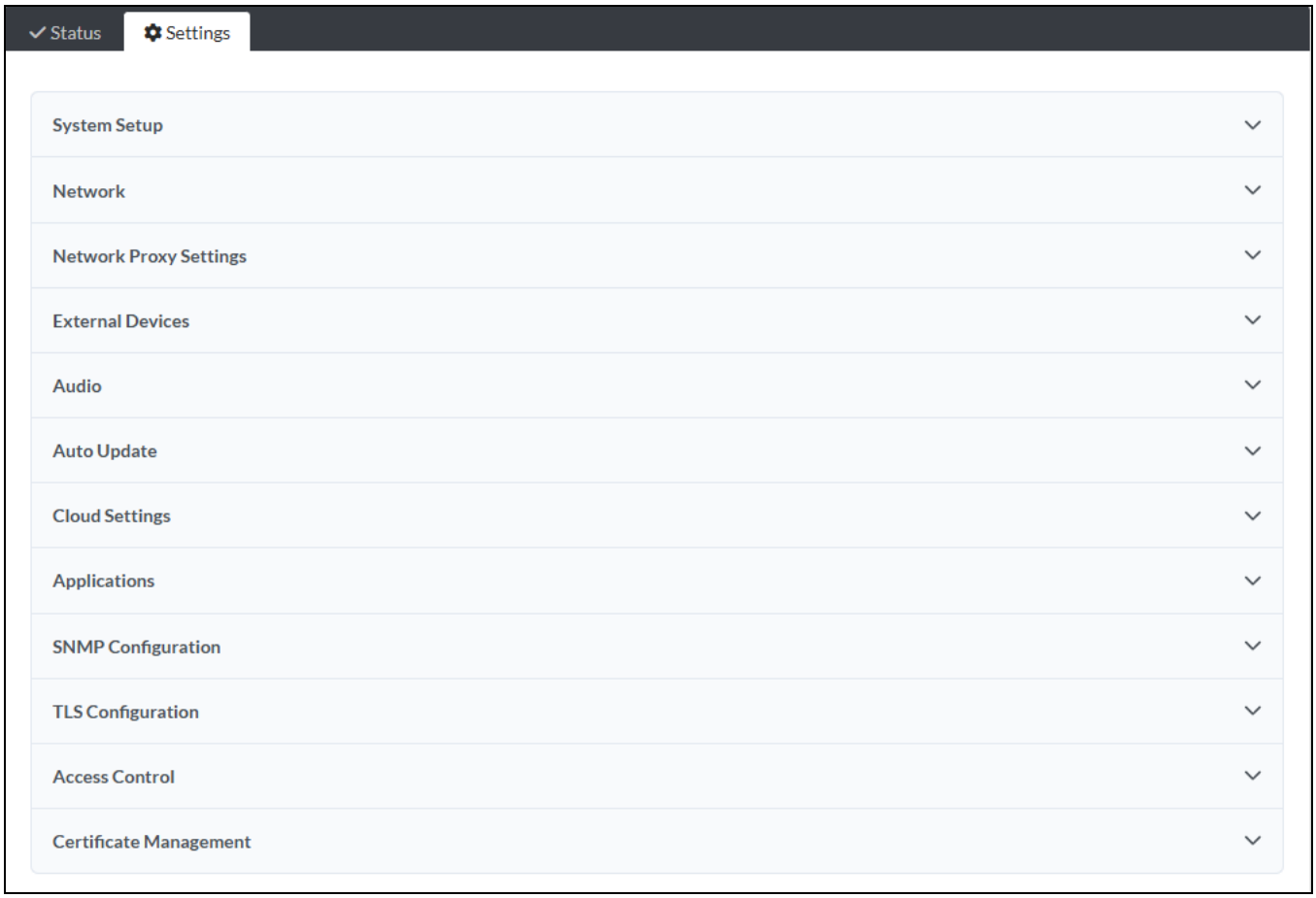
The following TLS information is displayed:

- **TLS Supported Version:** Displays the supported TLS versions
- **Encrypt Connection:** Reports if the TLS connection is encrypted
- Select the **+** (plus) icon next to **Server Certificate Verification**to display the following settings:
    - **Disable trust list verification:** Reports whether the touch screen disabled trusted device verification **(Yes)** or not **(No)**
    - **Disable DNS host name verification:** Reports whether the touch screen disabled host name verification **(Yes)** or not **(No)**
    - **Disable extended key usage verification:** Reports whether the touch screen disabled the extended key usage certificate extension **(Yes)** or not **(No)**

Settings

Select the **Settings** tab on the top left of the configuration interface to display selections for configuring various touch screen settings and to select a touch screen application.

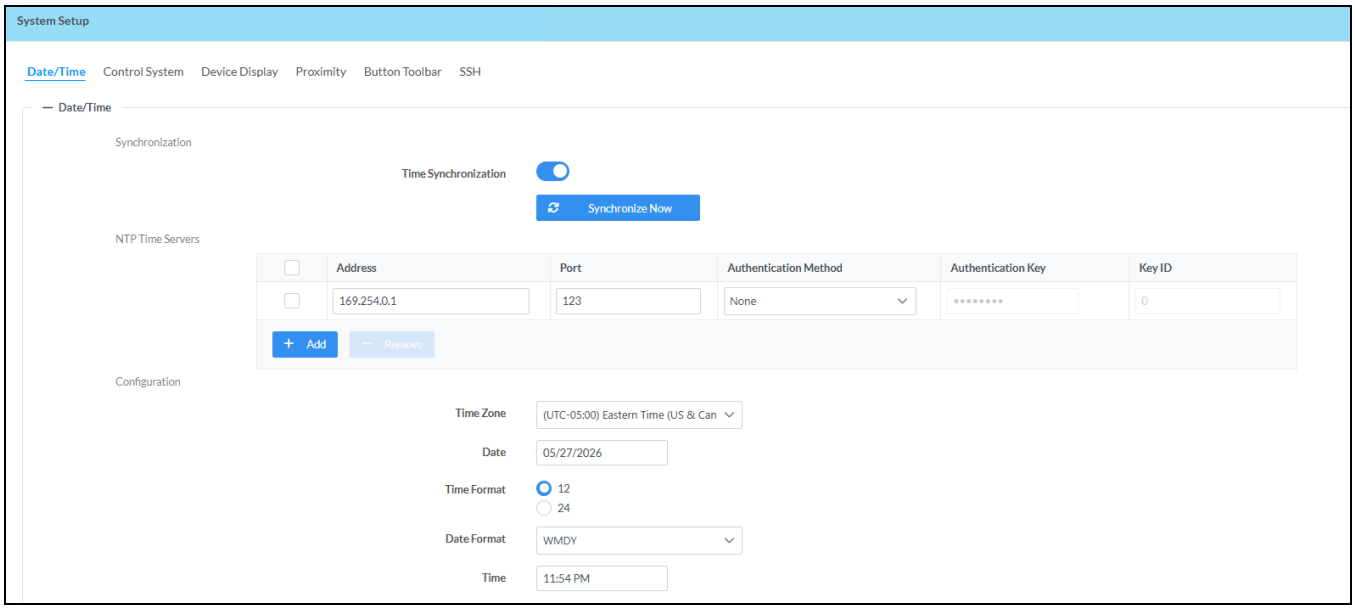
> **NOTE:** Some settings are model dependent and cannot be configured on the TSS-880-GV and TSS-1080-GV.



Each selection is described in the sections that follow.

System Setup

Select **System Setup** to configure general network and touch screen settings.

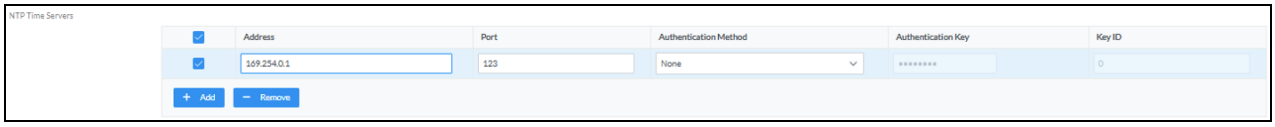


Date/Time

Select the **+** (plus) icon next to **Date/Time** to display the following time and date settings.

Turn on the toggle to use time synchronization via SNTP (Simple Network Time Protocol).

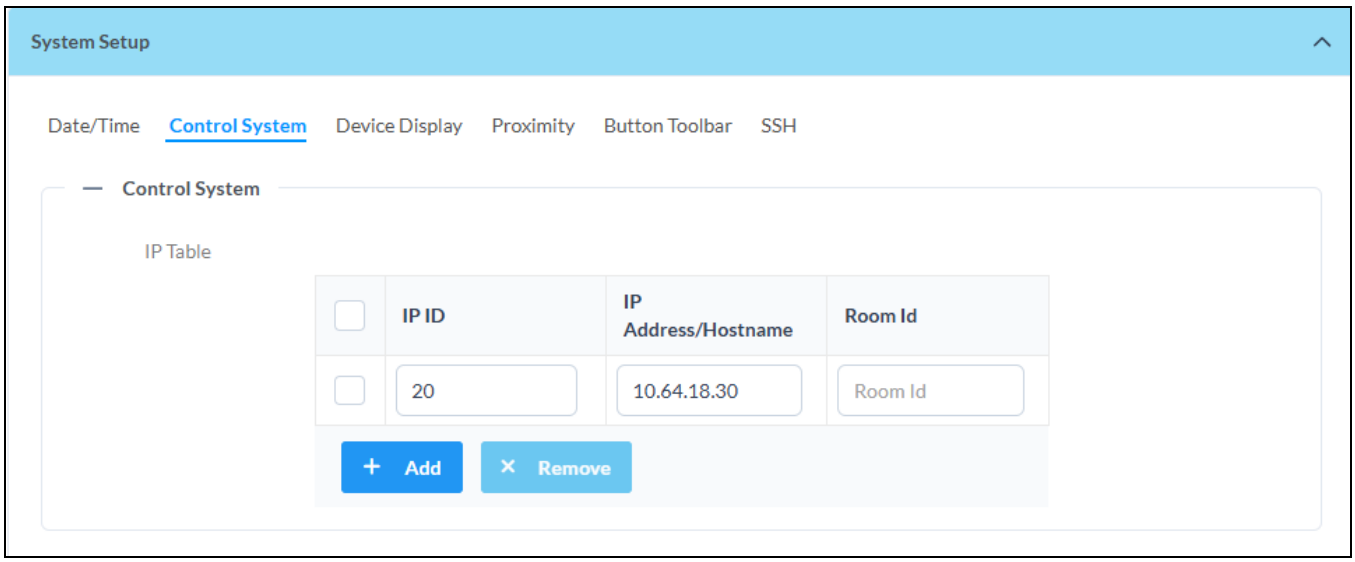
- **Synchronize Now:** With **Time Synchronization** turned on, select **Synchronize Now** to synchronize the touch screen with the SNTP server(s) entered in the NTP Time Servers table.
- Select **Add** to add a new SNTP server entry into the table.



  - Enter the following information for each entry:
    - Enter the SNTP server address into the **Address** text field.
    - Enter the SNTP server port into the **Port** text field.
    - Use the **Authentication Method** drop-down menu to select the authentication method used to access the SNTP server (if one exists).
    - If an authentication method is selected, enter the key used to authenticate against the SNTP server into the **Authentication Key** text field.
    - If an authentication method is selected, enter the ID for the key used to authenticate against the SNTP server into the **Key ID** text field.
- **NTP Time Servers:** With **Time Synchronization** turned on, use the provided table to enter information regarding the SNTP server(s) used to synchronize the date and time for the touch screen.
- To remove an entry, fill the checkbox to the left of the table entry, and then select **Remove**.

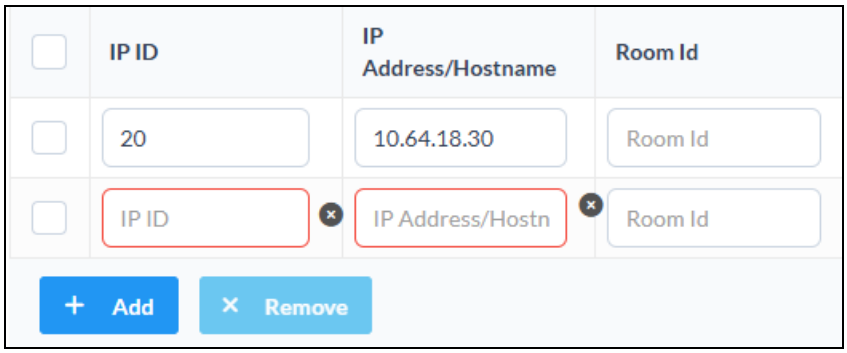
Control System

Select the **+** (plus) icon next to **Control System** to add or remove external control systems from the touch screen.



To enter a new control system:

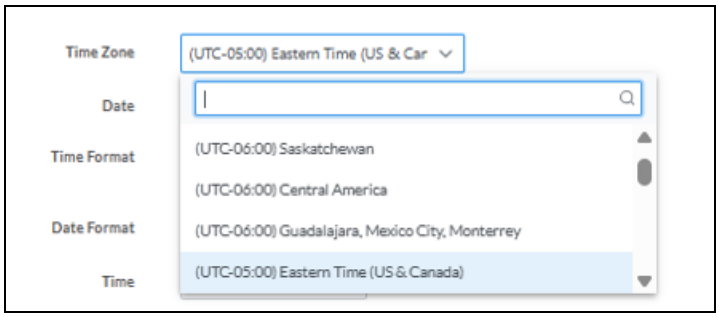
1. Select **Add**.
2. Enter the **IP ID**, **IP Address/Hostname** and **Room Id** (optional) of the control system.



3. Select **Add** again to add the control system to the touch screen.

To remove a control system, select the leftmost box next to the desired control system. Then, select **Remove**.

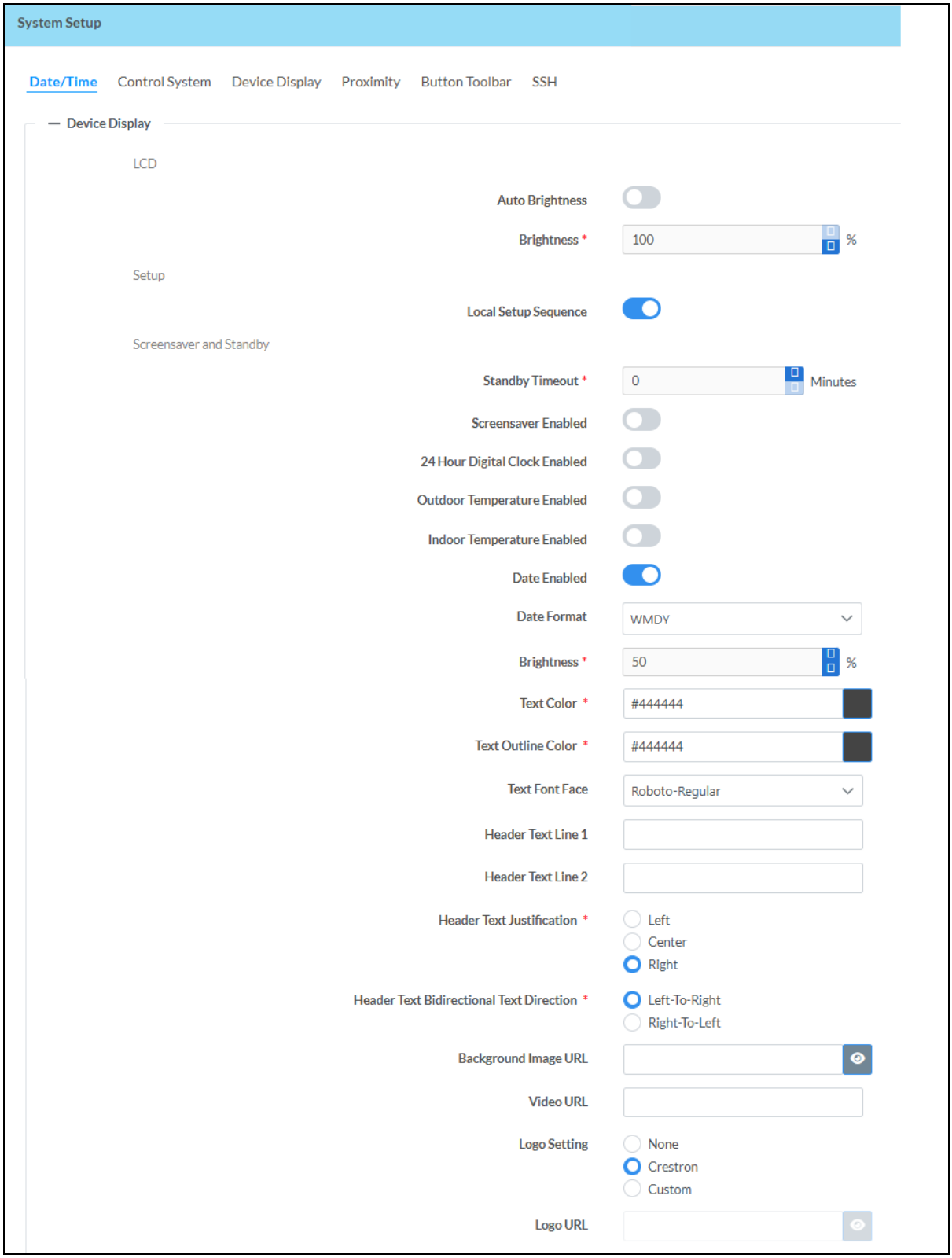
Time Configuration:



- **Time Zone:** Select a time zone for the touch screen using the drop-down menu.
- **Date:** Select the date for the touch screen using the pop-up calendar that is displayed.
- **Time Format:** Select the format that the time will display on the touch screen (12 hour or 24 hour).
- **Date Format:** Select the format that the date will display on the touch screen using the drop-down menu.
- **Time:** Select the time for the touch screen (in 24-hour format) using the pop-up menu that is displayed.

Device Display

Select the **+** (plus) icon next to **Device Display** to display the following device display settings.



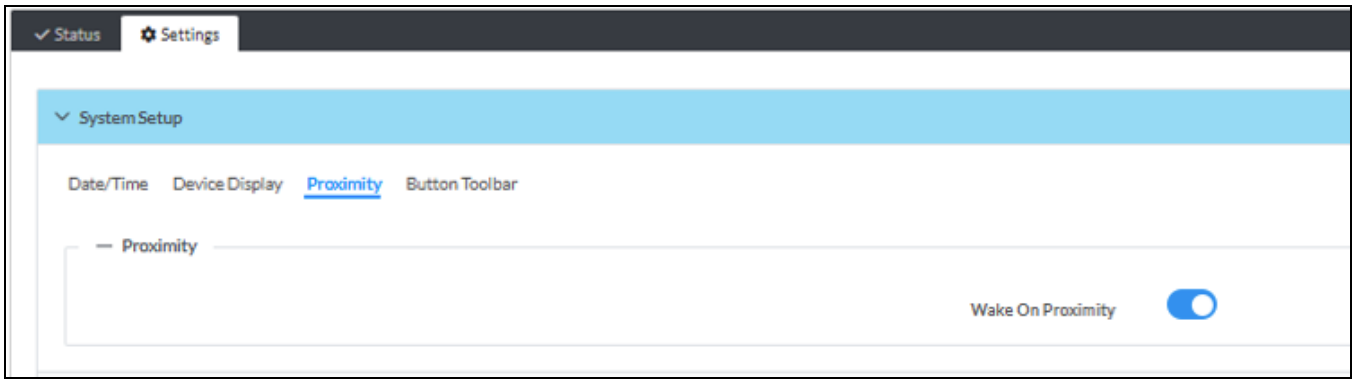
- **LCD**
  - **Auto Brightness**: Turn on the toggle to use automatic brightness control for the touch screen LCD display.
  - **Brightness**: If **Auto Brightness** is turned off, enter a value (1–100%) for the LCD display brightness.
- **Setup**
  - **Local Setup Sequence**: Turn on the toggle to allow local access to the settings screens using a five-finger press.
- **Screensaver and Standby**
  - **Standby Timeout**: Enter a standby timeout duration (1–120 minutes) for the touch screen.
  - **Screensaver Enabled**: Turn on the toggle to show a screensaver on the touch screen during standby timeout.
  - **24 Hour Digital Clock Enabled**: Turn on the toggle to display a 24-hour digital clock on the touch screen during standby timeout.
  - **Outdoor Temperature Enabled**: Turn on the toggle to display the outdoor temperature on the touch screen during standby timeout via a join from a control system.
  - **Indoor Temperature Enabled**: Turn on the toggle to display the indoor temperature on the touch screen during standby timeout via a join from a control system.
  - **Date Enabled**: Turn on the toggle to display the date on the touch screen during standby timeout.
  - **Date Format**: Use the drop-down menu to select a format for displaying the date on the touch screen.
  - **Brightness**: Enter a brightness value (1–100%) for the screensaver.
  - **Text Color**: Select the color icon to the right of this field to display a pop-up window for selecting the text color of the screensaver, or enter a hex value for a specific color.
  - **Text Outline Color**: Select the color icon to the right of this field to display a pop-up window for selecting the text outline color of the screensaver, or enter a hex value for a specific color.
  - **Text Font Face**: Use the drop-down menu to select a font for the screensaver text.
  - **Header Text Line 1**: Enter text to be displayed on the first header text line of touch screen screensaver.
  - **Header Text Line 2**: Enter text to be displayed on the second header text line of touch screen screensaver.
  - **Header Text Justification**: Select one of the radio buttons (**Left**, **Center**, or **Right**) to select how the header text is justified on the touch screen screensaver.
  - **Header Text Bidirectional Text Direction**: Select one of the radio buttons (**Left-To-Right** or **Right-To-Left**) to determine the language text direction on the touch screen screensaver.
  - **Background Image URL**: Enter a URL of a background image to be used by the touch screen screensaver.
  - **Video URL**: Enter a URL of video to be used by the touch screen screensaver.

- **Logo Setting**: Select one of the radio buttons (**None**, **Crestron**, and **Custom**) to select a logo type to use on the touch screen screensaver.
- **Logo URL**: If **Logo Setting** is set to **Custom**, enter a URL of a custom logo to be used by the touch screen screensaver.

Proximity

Select the **+** (plus) icon next to **Proximity** to display the following proximity settings.

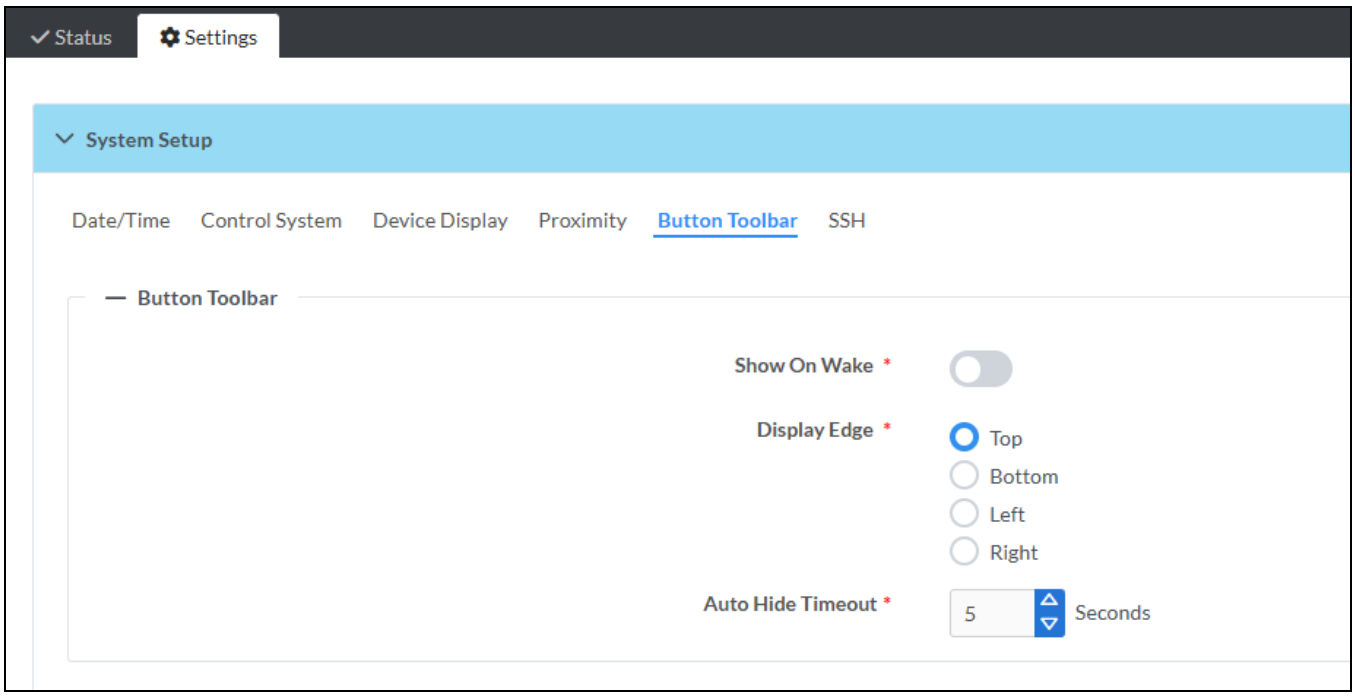
> **NOTE:** This feature is unavailable on -GV models.



Turn on the **Wake On Proximity** toggle wake the touch screen automatically when a user enters the touch screen proximity field.

Button Toolbar

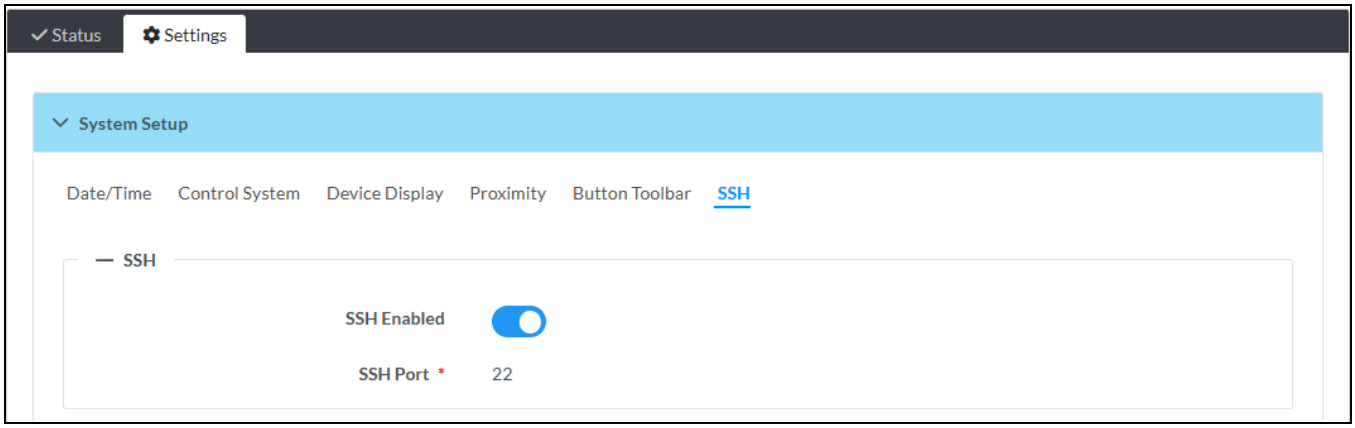
Select the **+** (plus) icon next to **Button Toolbar** to display the following virtual toolbar button settings.



- **Show On Wake**: Turn on the toggle to show the virtual toolbar when the touch screen wakes from standby timeout.
- **Display Edge**: Select a radio button (**Top**, **Bottom**, **Left**, or **Right**) to select the position on the touch screen where the virtual toolbar is displayed.
- **Auto Hide Timeout**: Select a duration (in seconds) that must elapse before the virtual toolbar is hidden automatically.

SSH

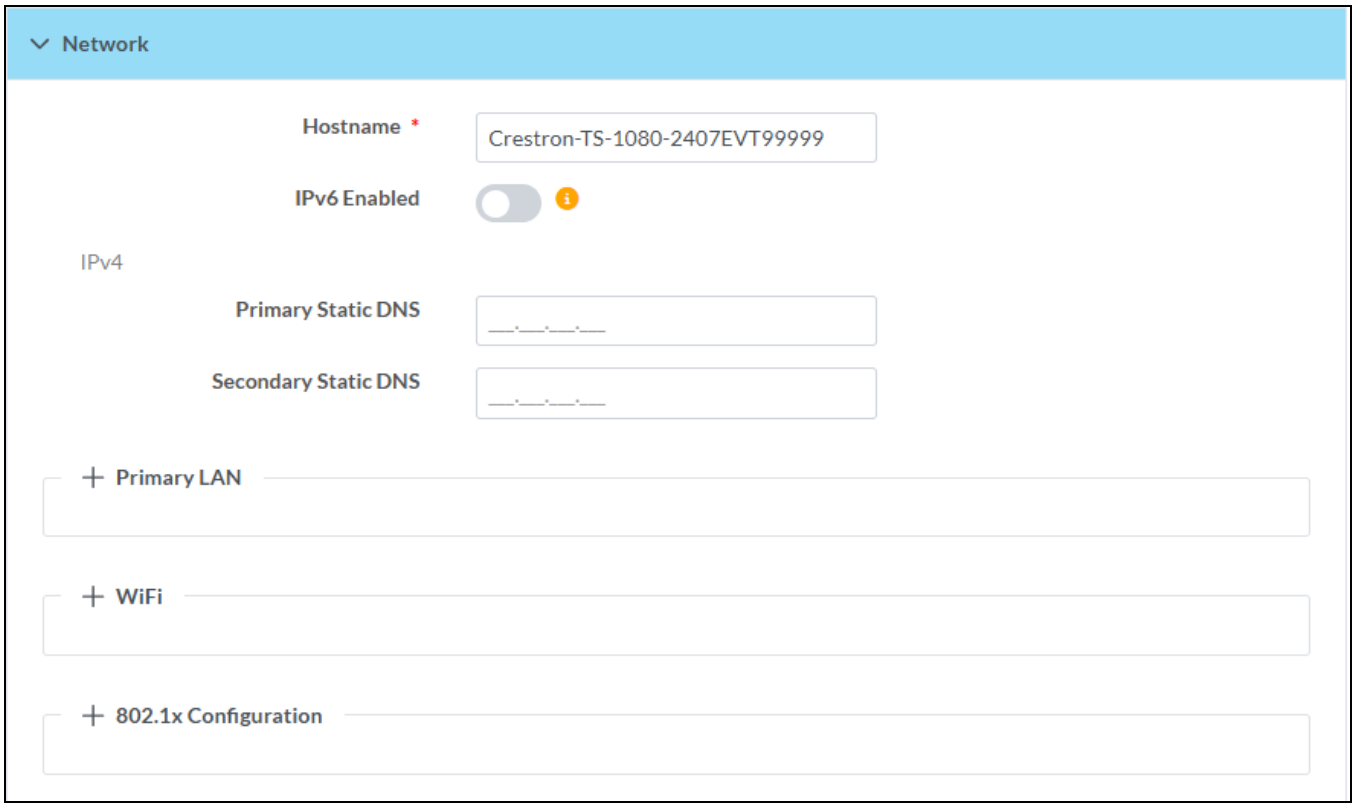
Select the **+** (plus) icon next to **SSH** to display the following SSH settings.



Turn on the **SSH Enabled** toggle to allow remote servers to access and interface with the touch screen. SSH is turned off by default.

Network

Select **Network** to configure network settings for the touch screen.



NOTE: The **IP Address**, **Subnet Mask**, and **Default Gateway** fields are required only if DHCP is turned off for Ethernet and Wi-Fi network connections.

- **Hostname**: Enter the touch screen host name.
- **IPv6 Enabled**: Turn on the toggle to use IPv6 addressing for the touch screen.
- **Primary Static DNS**: If **IPv6 Enabled** is turned on, enter the primary DNS address used to resolve the touch screen domain to an IPv6 address.
- **Secondary Static DNS**: If **IPv6 Enabled** is turned on, enter the secondary DNS address used to resolve the touch screen domain to an IPv6 address.

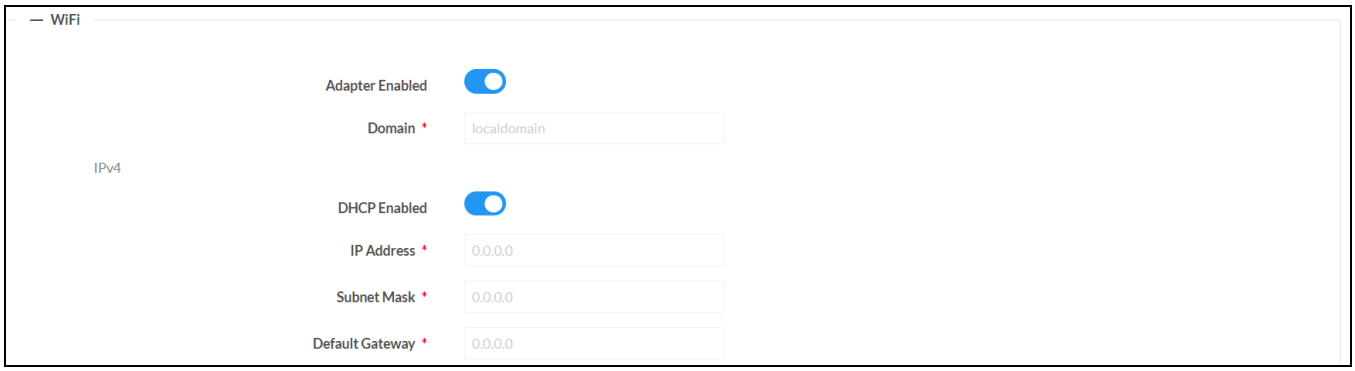
Select the **+** (plus) icon next to **Primary LAN** to display the following Ethernet settings:



- **Adapter Enabled**: Turn on the toggle to use the touch screen Ethernet adapter, which allows the touch screen to make an Ethernet connection.
- **Domain**: Enter the fully qualified domain name on the network.
    - **DHCP**: Turn on the toggle to use DHCP for the IPv4 Ethernet connection.
    - **NOTE:** If DHCP is turned on, IP does not function until a reply has been received from the server. The touch screen broadcasts requests for an IP address periodically.
    - **IP Address**: Enter the touch screen IPv4 Ethernet address on the network.
    - **Subnet Mask**: Enter the touch screen subnet mask address on the network.
    - **Default Gateway**: Enter the gateway router address on the network.

Select the **+** (plus) icon next to **Wi-Fi** to display the following Wi-Fi network settings:

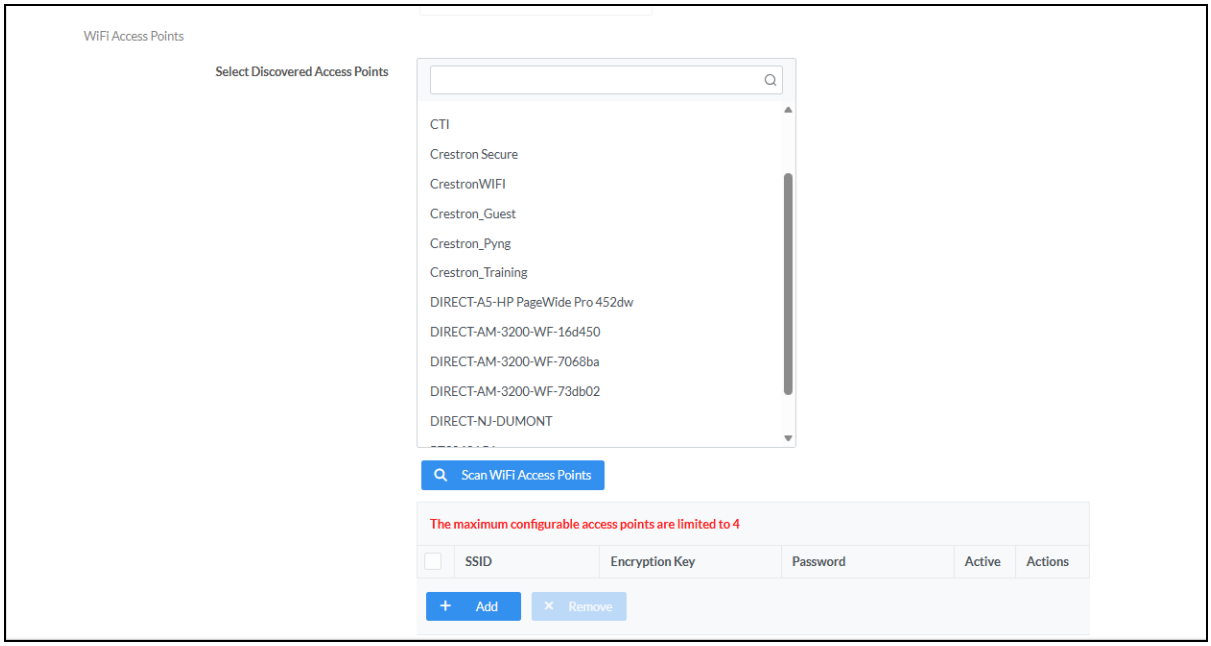
> **NOTE:** This feature is unavailable on -GV models.



- **Adapter Enabled**: Turn on the toggle to use the touch screen Wi-Fi adapter, which allows the touch screen to make a Wi-Fi network connection.
- **Domain**: Enter the fully qualified domain name on the network.
  - **DHCP**: Turn on the toggle to use DHCP for the IPv4 Wi-Fi network connection.

    > **NOTE:** If DHCP is turned on, IP does not function until a reply has been received from the server. The touch screen broadcasts requests for an IP address periodically.

  - **IP Address**: Enter the touch screen IPv4 Wi-Fi network address on the network.
  - **Subnet Mask**: Enter the touch screen subnet mask address on the network.
  - **Default Gateway**: Enter the gateway router address on the network.
- **Wi-Fi Access Points**

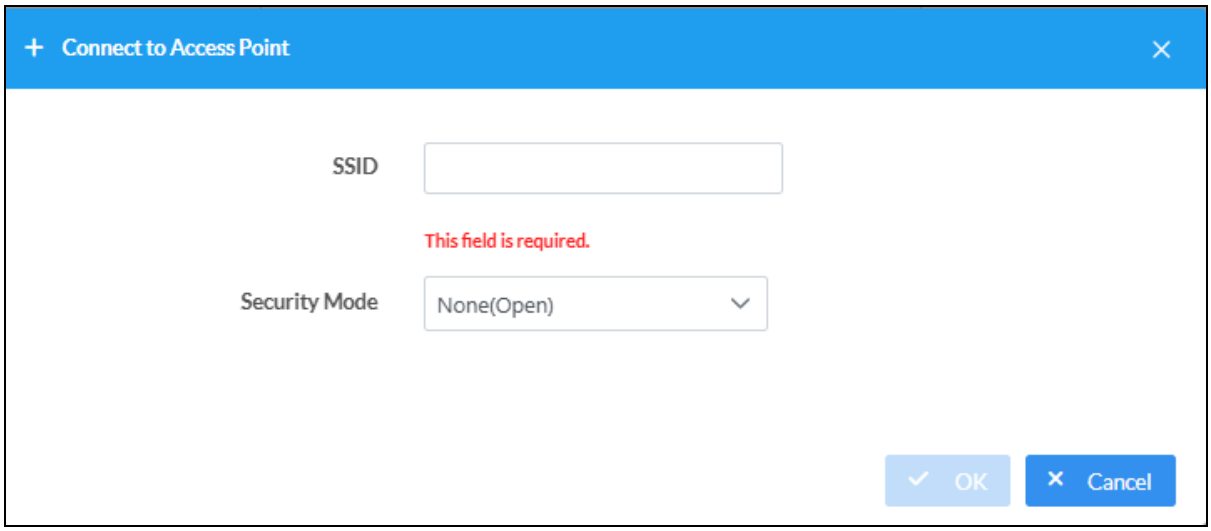


  - **Select Discovered Access Points**: Select an access point after completing a scan. Enter text in the search field to search for a specific Wi-Fi access point name.
  - **Add Access Points**: Adds the chosen access point entry from the **Select Discovered Access Points** field to the table below.

Each added Wi-Fi access point is displayed in a table that contains the following information.

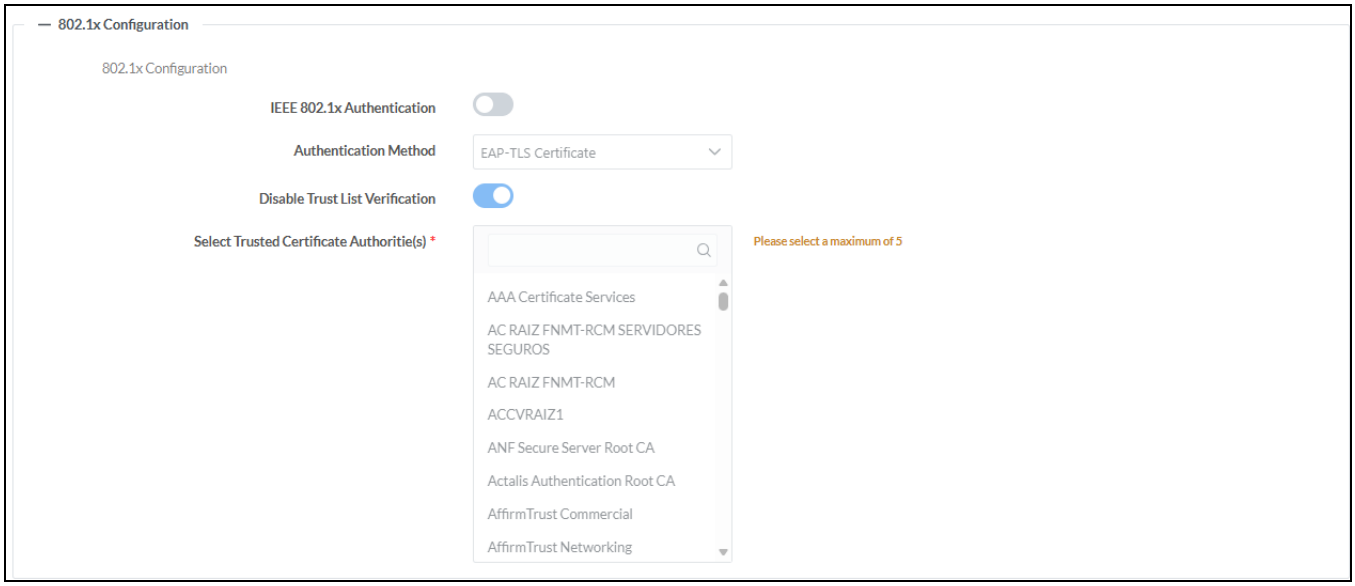
- **SSID**: Enter or modify the SSID (name) of the Wi-Fi access point.
- **Encryption Key**: Select the security/encryption type used by the Wi-Fi access point.
- **Password**: Enter the password used to connect to the Wi-Fi access point.
- **Active Access Point**: Indicates whether a connection to the Wi-Fi access point is active

Select **Add** to open the **Connect to Access Point** pop-up window. Enter the **SSID** information and Security Mode and select **OK** to add a new entry to the Wi-Fi access point table.



After selecting one more entries in the Wi-Fi access point table, select **Remove** to delete the selected entries.

Select the **+** (plus) icon next to **802.1x Configuration** to display the following settings:



- **IEEE 802.1x Authentication**: Turn on the toggle to use 802.1X authentication for the touch screen.
- **Authentication Method**: Select an 802.1X authentication method (**EAP-TLS Certificate** or **EAP MSCHAP V2- password**) from the drop-down menu.

  > **NOTE:** In FIPS mode, password authentication should not be used.

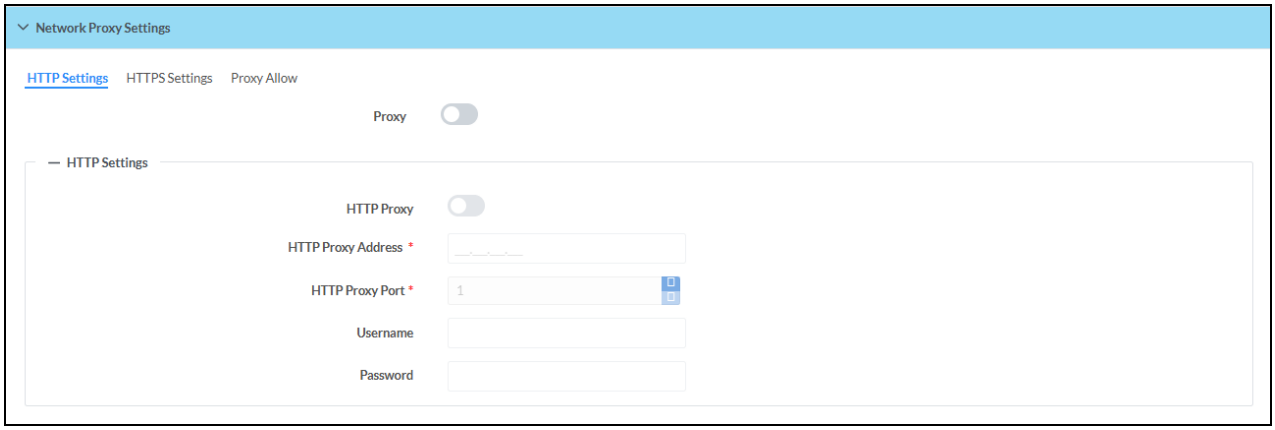
- **Select Trusted Certificate Authorities**: Select trusted CAs (Certificate Authorities) from the provided CAs to be used for server validation.

Select **Manage Certificates** from the **Action** menu to add or remove CAs from the list.

Network Proxy Settings

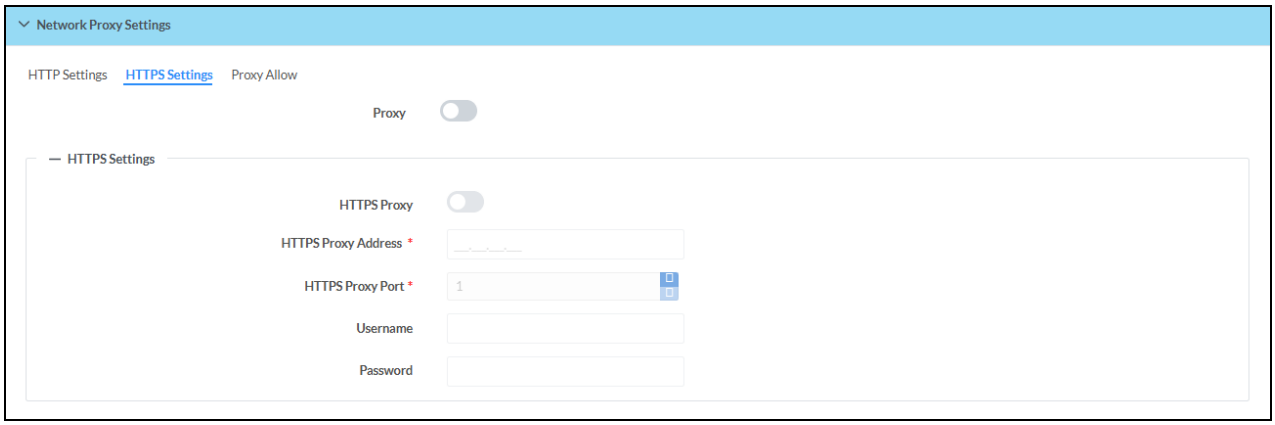
Select **Network Proxy Settings** to configure network proxy settings for the touch screen.

- **Proxy**: Turn on the toggle to configure the touch screen for use with a proxy server.
- **HTTP Settings**



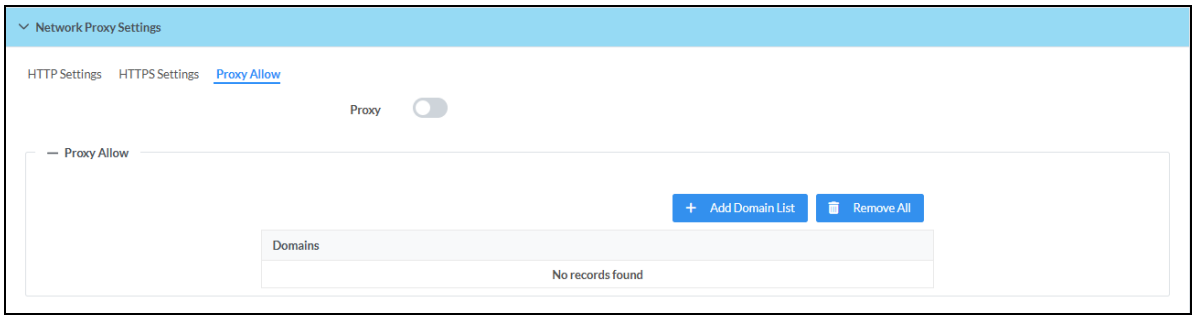
  - **HTTP Proxy**: Turn on the toggle to use an HTTP proxy server.
  - **HTTP Proxy Address**: Enter the IP address of the HTTP proxy server.
  - **HTTP Proxy Port**: Enter the port number of the HTTP proxy server.
  - **Username**: Enter the username required for the HTTP proxy server.
  - **Password**: Enter the password required for the HTTP proxy server.

- **HTTPS Settings**

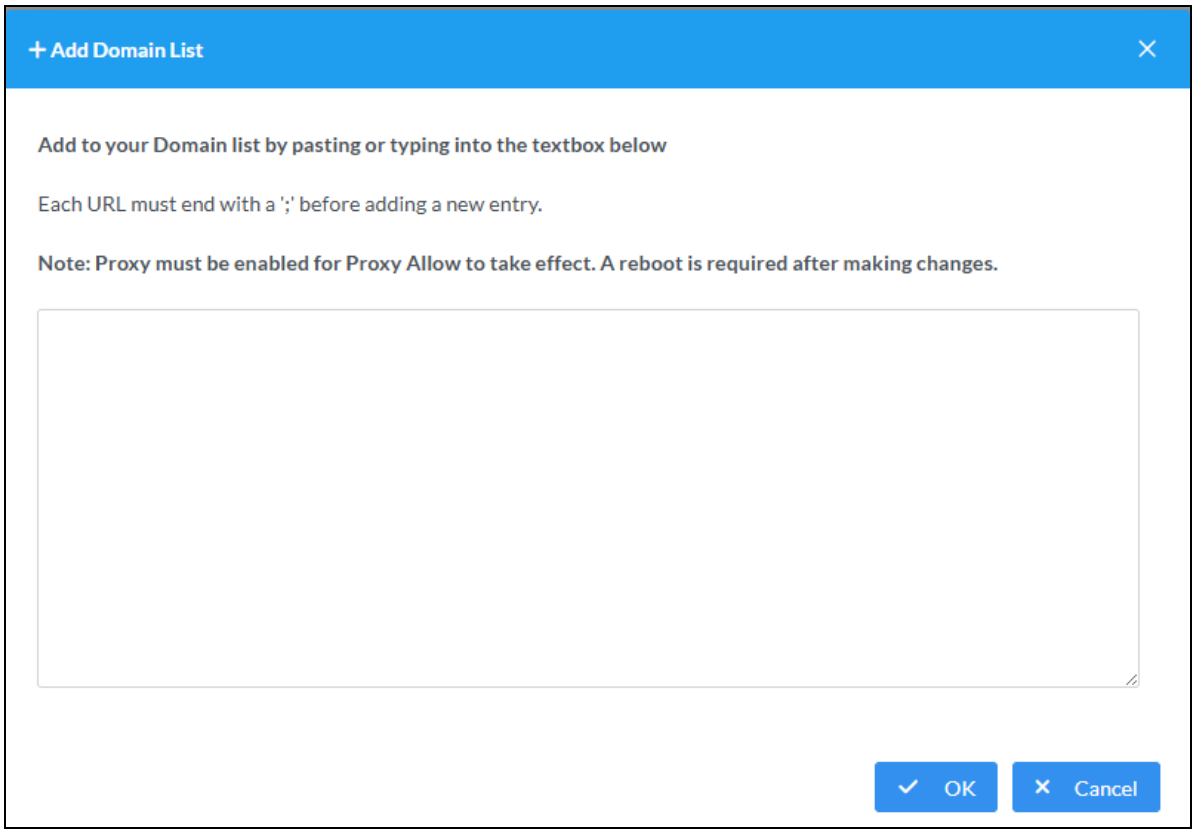


  - **HTTPS Proxy**: Turn on the toggle to use an HTTPS proxy server.
  - **HTTPS Proxy Address**: Enter the IP address of the HTTPS proxy server.
  - **HTTPS Proxy Port**: Enter the port number of the HTTPS proxy server.
  - **Username**: Enter the username required for the HTTPS proxy server.
  - **Password**: Enter the password required for the HTTPS proxy server.

- **Proxy Allow**
  - **Proxy:** Turn on to use an additional proxy server.



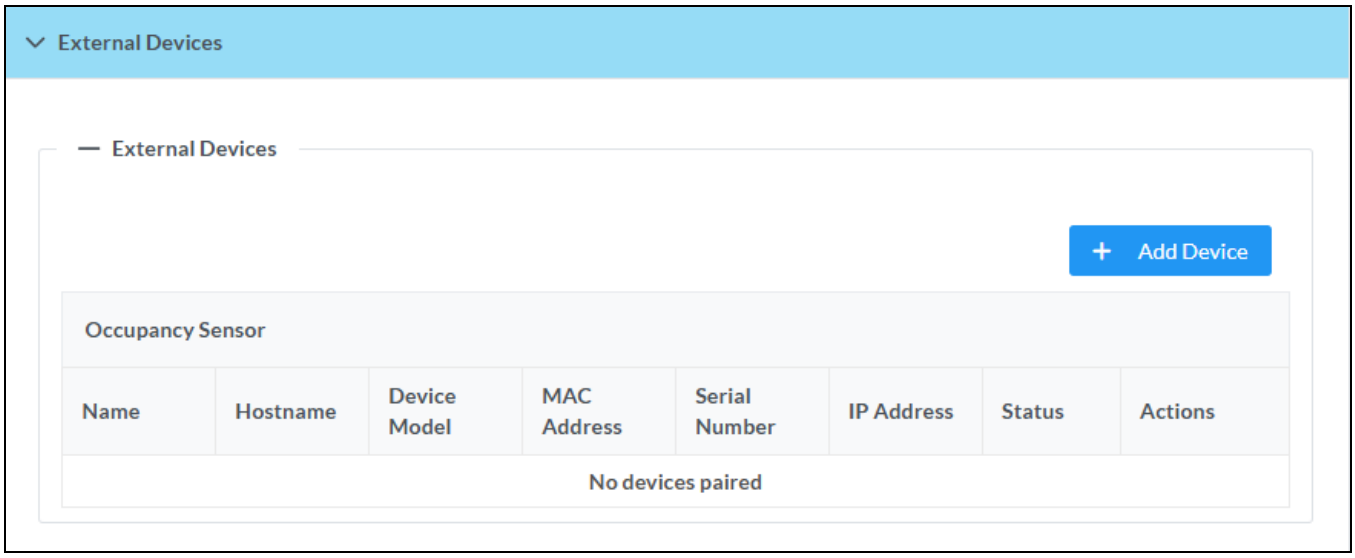
  - Select **Add Domain List** or **Remove All** to add or remove domains to the proxy list.



    - Add all domain URLs into the text field as a semicolon-delimited list.
    - Select **OK**.

External Devices

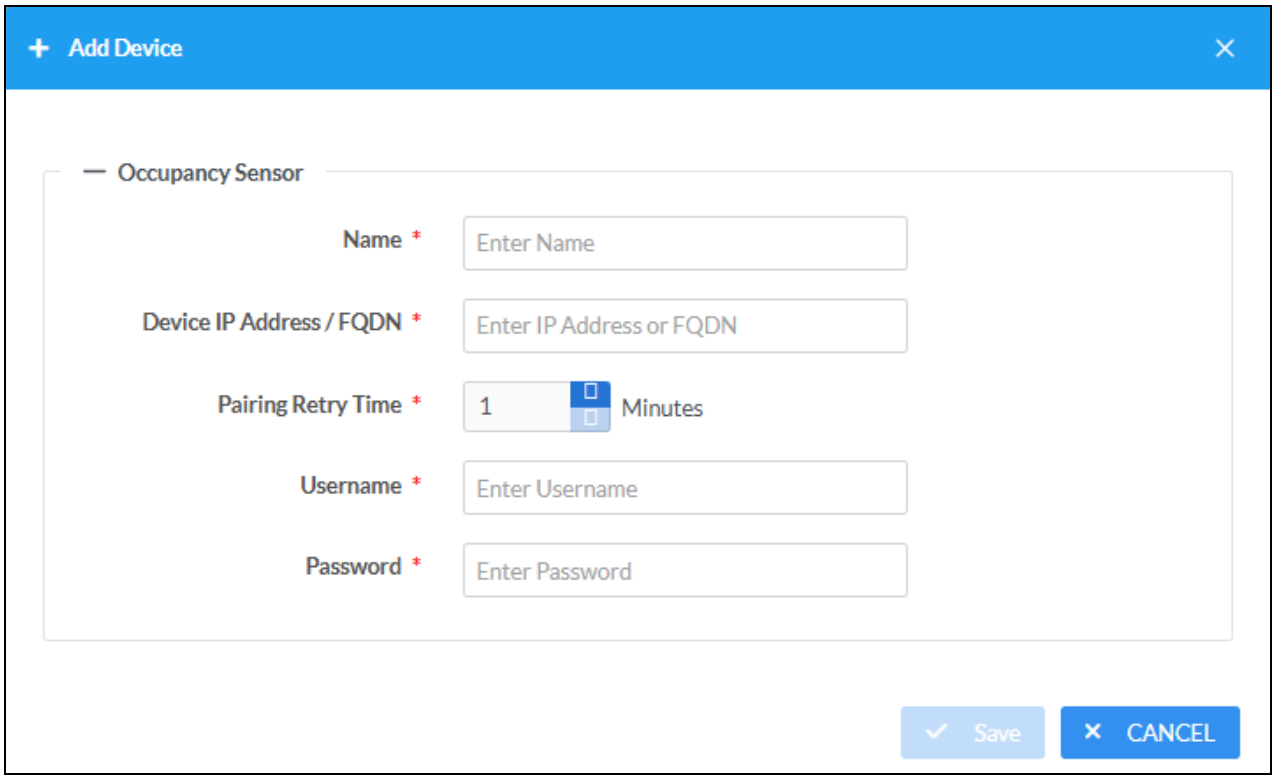
Select **External Devices** to configure settings for pairing the touch screen to accessories or other devices.



> **NOTE:** Bluetooth devices cannot be connected to -GV models.

Select **Add Device** to add any conferencing devices or occupancy sensors to the touch screen. Only one device may be paired at a time.

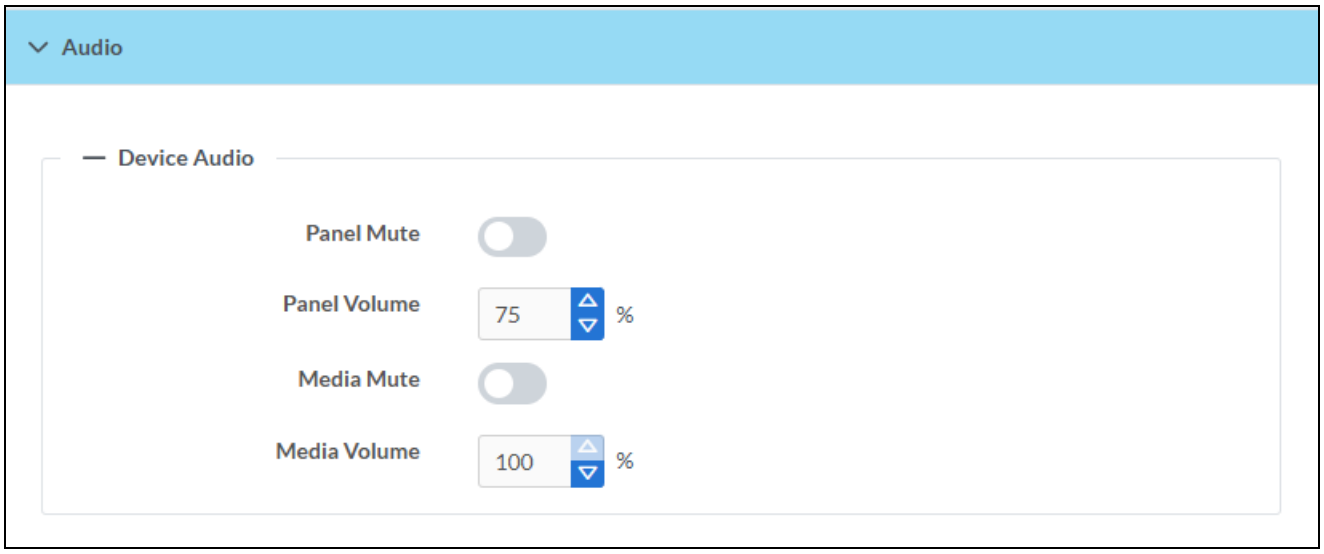
- If connecting an occupancy sensor, select **Add Device** above **Occupancy Sensor**.



  - Enter the **Device Name**, **IP Address**, **Username** and **Password**.
  - Use the arrows to increase or decrease the device's pairing retry timeout.
  - Select **Save**.

Audio

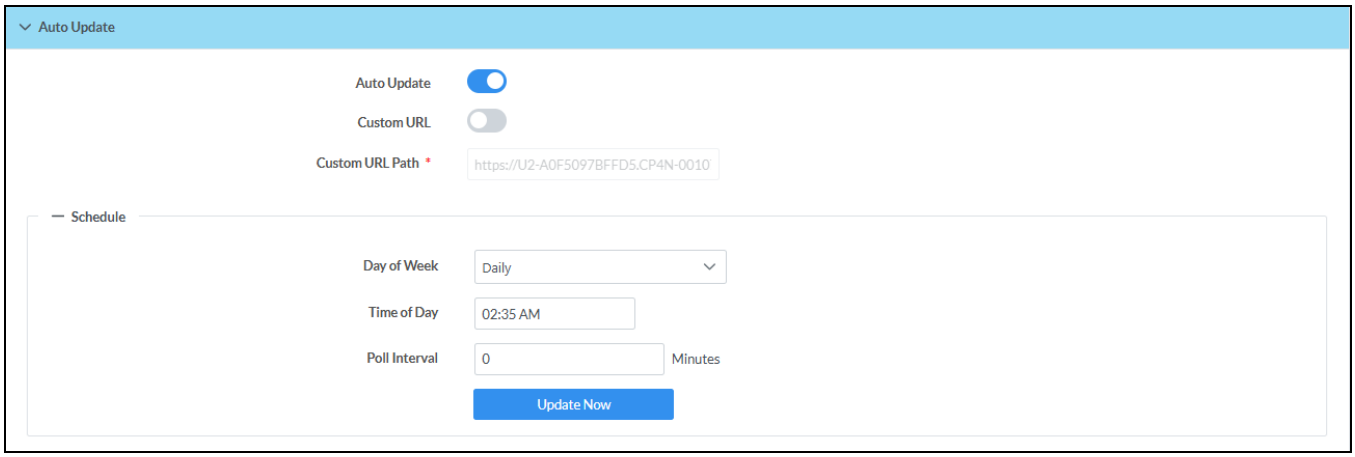
Select **Audio** to configure various audio settings for the touch screen.



- **Panel Mute**: Turn on the toggle to mute the main touch screen volume.
- **Panel Volume**: Enter a value (1–100) for the main touch screen volume level.
- **Media Mute**: Turn on the toggle to mute the touch screen media volume.
- **Media Volume**: Enter a value (1–100) for the touch screen media volume level.

Auto Update

Select **Auto Update** to configure automatic firmware updates for the touch screen.

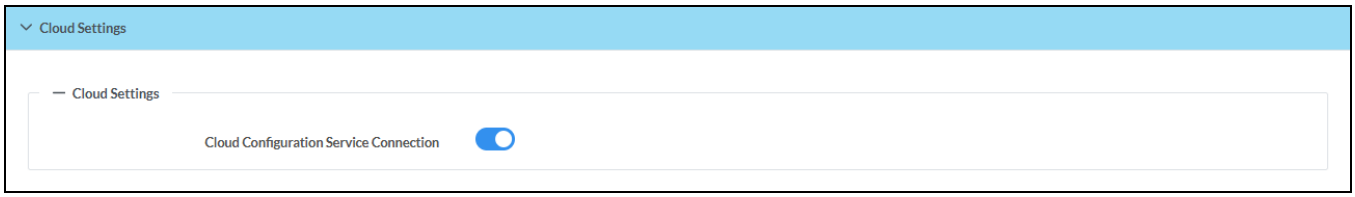


NOTE: The **Auto Update** accordion can be used to configure auto update settings for firmware only. Automatic application updates are not affected by these settings.

- **Auto Update**: Turn on the toggle to use automatic firmware updates.
- **Custom URL**: Turn on the toggle use a custom update server URL. If turned off, the server URL will default to the standard Crestron update sever.
- **Custom URL Path**: If **Custom URL Path** is turned on, enter the custom URL path for the update server.
- **Day of Week**: Select the day of week when the touch screen will check for updates. Select Daily to have the touch screen check for updates every day.
- **Time of Day**: Enter a time of day (in 24-hour format) when the touch screen will check updates on the scheduled day.
- **Poll Interval**: Enter the polling interval (in hours) for when the touch screen will poll the server for updates.
- Select **Update Now** to check the update server for new firmware and to update the touch screen immediately if new firmware is available.

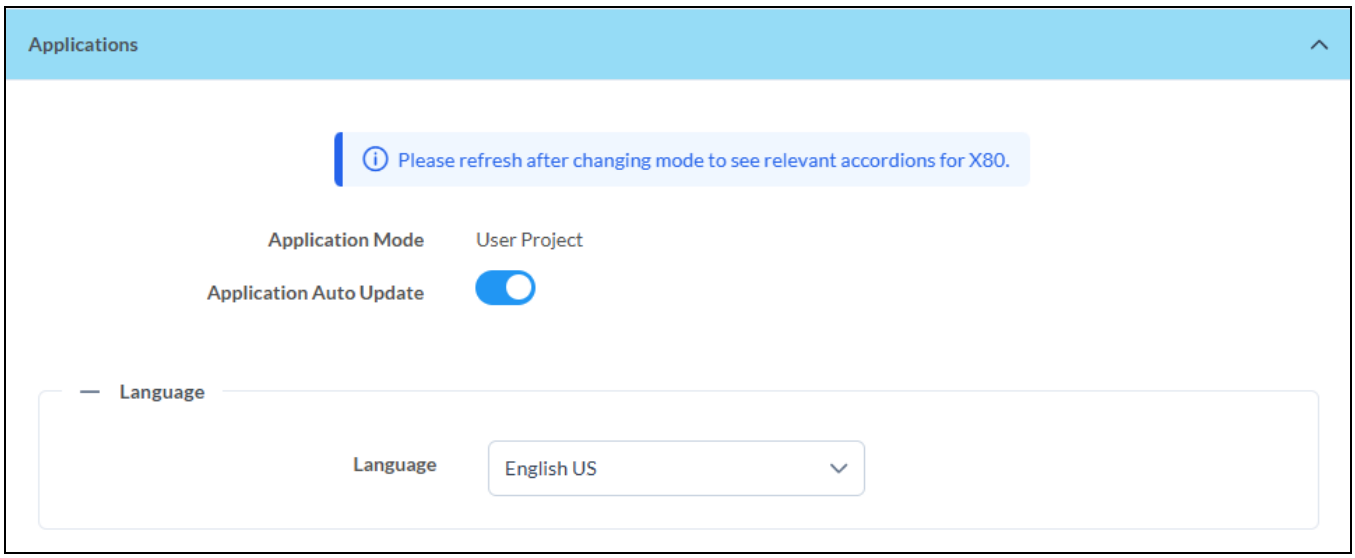
Cloud Settings

Select **Cloud Settings** to enable or disable a connection between the touch screen and an XiO Cloud® service account. A connection to the XiO Cloud service is enabled by default after completing the Setup Wizard.



Applications

Select **Applications** to view the currently running application.

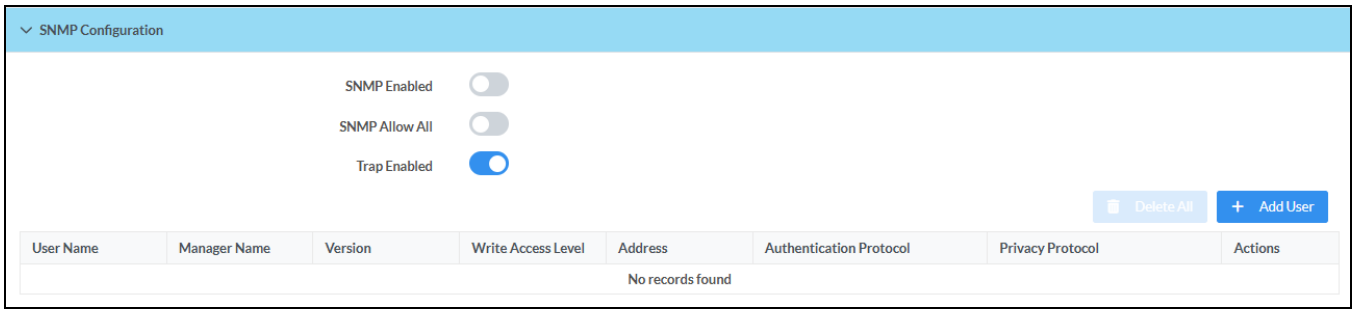


The **Application Mode** field displays the currently running touch screen application. Use the **Language** drop-down menu to switch between supported languages.

> **NOTE:** Each application uses a unique setup procedure for registering and configuring the application.

SNMP Configuration

Select SNMP Configuration to configure SNMP (Simple Network Management Protocol) settings on the touch screen.



SNMP Enabled: Turn on the toggle to turn on SNMP for the touch screen.

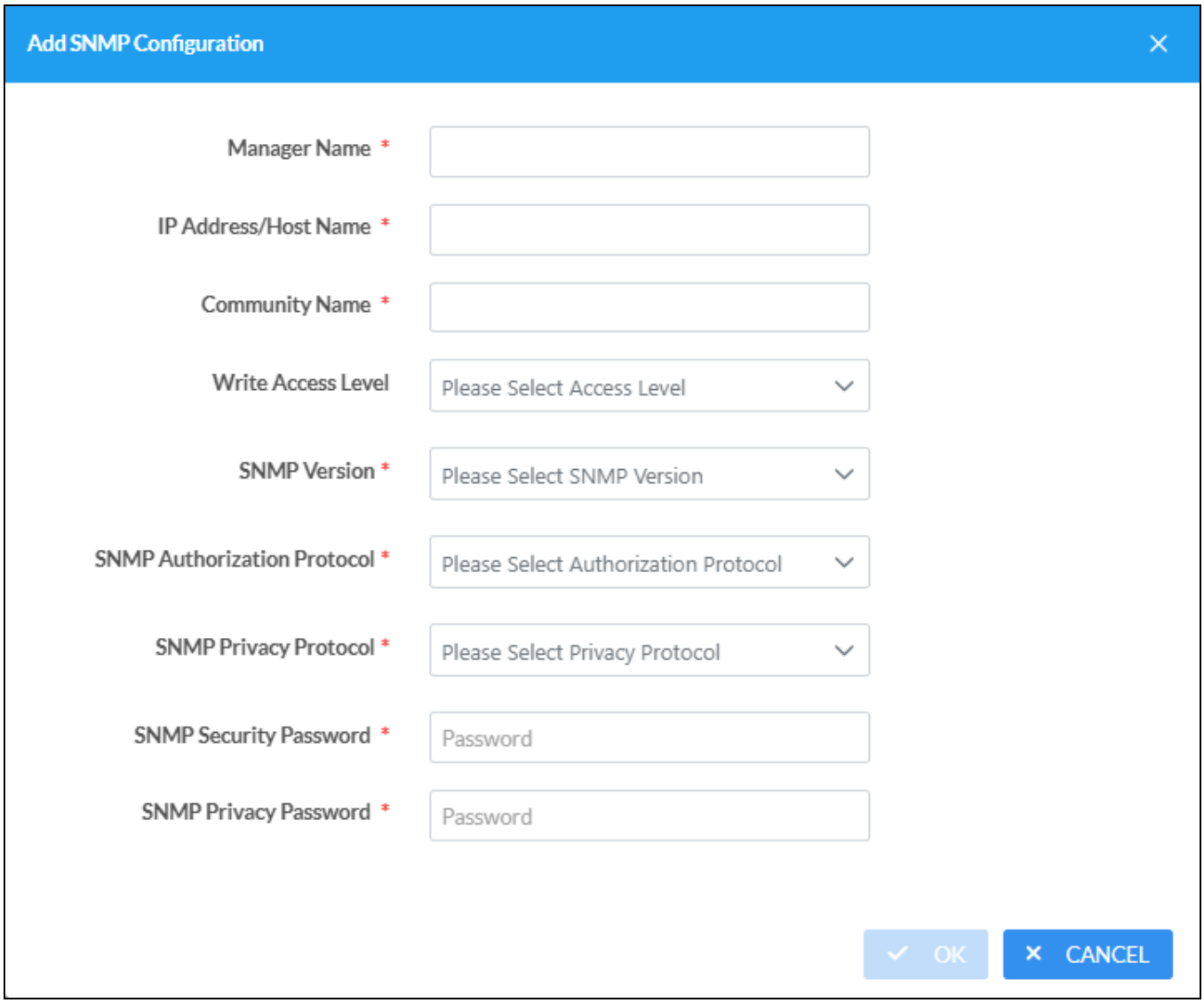
- **SNMP Allow All**: Turn on the toggle to all the touch screen to receive SNMP requests from all managers.
- **Trap Enabled**: Turn on the toggle to turn on SNMP trap notifications.

Each added SNMP user is displayed in a table that contains the following information.

- **User Name**: The name of the SNMP user
- **Manager Name**: The SNMP manager for the user
- **Version**: The SNMP version set for the user
- **Write Access Level**: Indicates whether the user has write level permissions (**true**) or read-only permissions (**false**)
- **Address**: The IP address of the SNMP manager
- **Authentication Protocol**: The authentication protocol used by the SNMP manager
- **Privacy Protocol**: The privacy protocol used by the SNMP manager
- **Actions**: Controls for editing and deleting the SNMP user

Select **Delete All** to delete all existing SNMP users. When a dialog box is shown asking whether all SNMP users should be deleted, select **Yes**.

Select **Add User** to add a new SNMP user. Enter the following information for the SNMP user:



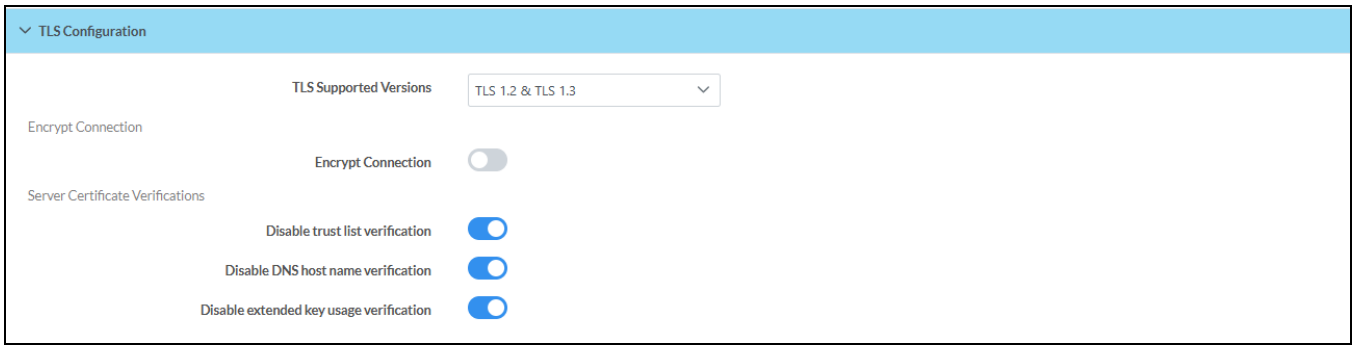
- **Manager Name**: Enter the SNMP manager name for the user.
- **IP Address/Host Name**: Enter the IP address or host name of the SNMP manager.
- **Community Name**: Enter the SNMP community (user) name.
- **Write Access Level**: Use the drop-down menu to select whether the user has write level access (**True**) or read-only access (**False**).
- **SNMP Version**: Use the drop-down menu to select the SNMP version used by the manager.
- **SNMP Authorization Protocol**: If required, use the drop-down menu to select the authorization protocol used by the SNMP manager.
- **SNMP Privacy Protocol**: If required, use the drop-down menu to select the privacy protocol used by the SNMP manager.

- **SNMP Security Password**: If required, enter the security password for the SNMP manager.
- **SNMP Privacy Password**: If required, use the privacy password for the SNMP manager.

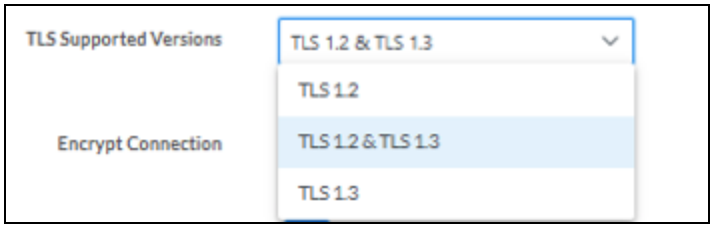
Select **OK** to create the new user. The user is added to the table within the **SNMP Configuration** table.

TLS Configuration

Select **TLS Configuration** to configure the TLS (Transport Layer Security) settings.



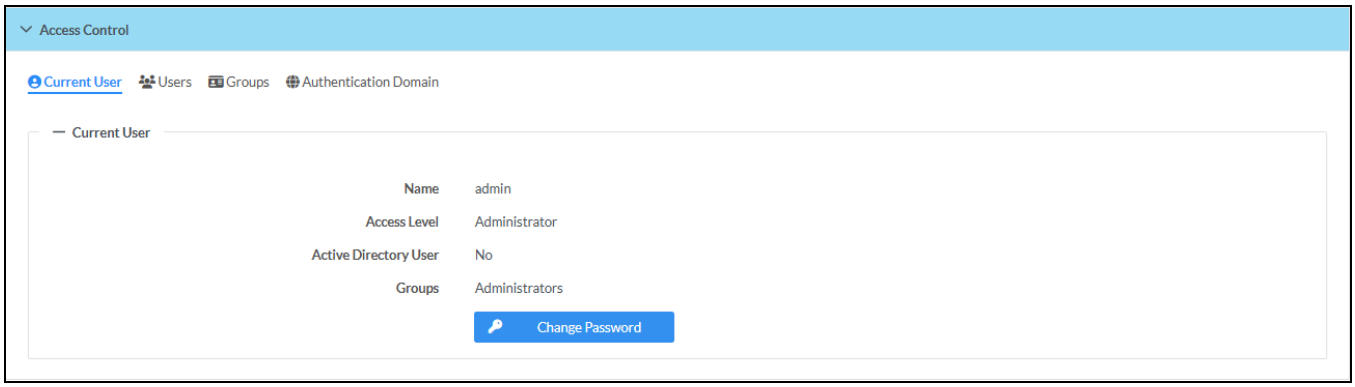
- **TLS Supported Version:** Use the drop-down menu to select the desired TLS version.



- **Encrypt Connection:** Use the drop-down menu to toggle TLS encryption.
- **Disable trust list verification:** Turn on the toggle to enable trusted device verification.
- **Disable DNS host name verification:** Turn on the toggle to enable host name verification.
- **Disable extended key usage verification:** Turn on the toggle to enable extended key usage certificate extensions.

Access Control

Select **Access Control** to display selections for configuring security and authentication settings for the touch screen.



CAUTION: Do not lose the administrator username and password, as the touch screen settings must be restored to factory defaults to reset the username and password.

Use the following settings to add, delete, and edit touch screen users and groups.

Current User

Select the **Current User** tab to view and edit information for the current touch screen user. The following settings are displayed for the current user:

- **Name**: The chosen username
- **Access Level**: The access level granted to the user (**Administrator**, **Programmer**, **Operator**, **User**, or **Connect**)
- **Active Directory User**: Reports whether the current user is (**Yes**) or is not (**No**) authenticated through Active Directory® software

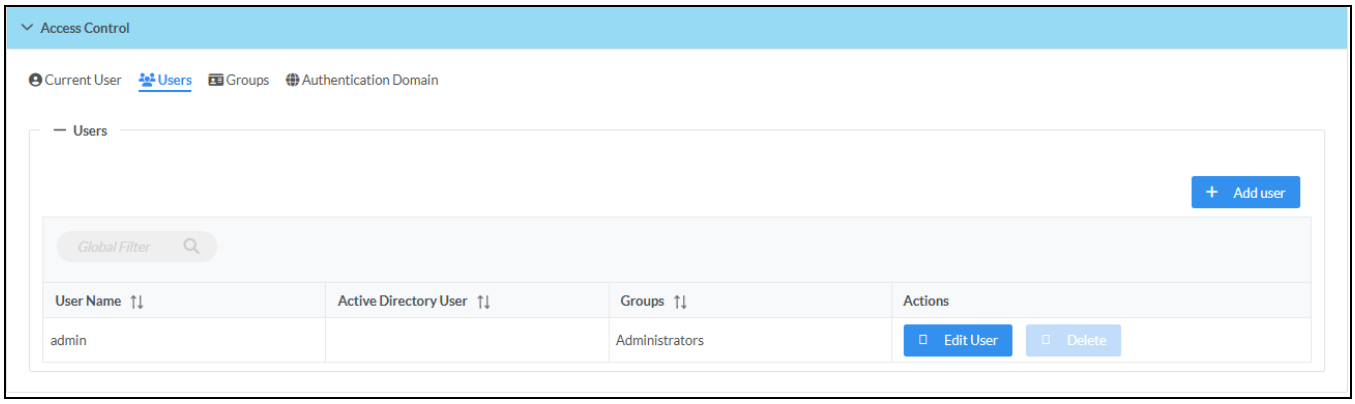
  NOTE: A user must be added to an Active Directory group before the user may be selected as an active directory user. For more information, refer to Web Configuration on page 148.

- **Groups**: Any groups of which the current user is a member

Select **Change Current User Password** to change the password for the current user.

Users

Select the **Users** tab to view and edit information for the touch screen users. Enter text into the **Search Users** field to find and display users that match the search term(s).

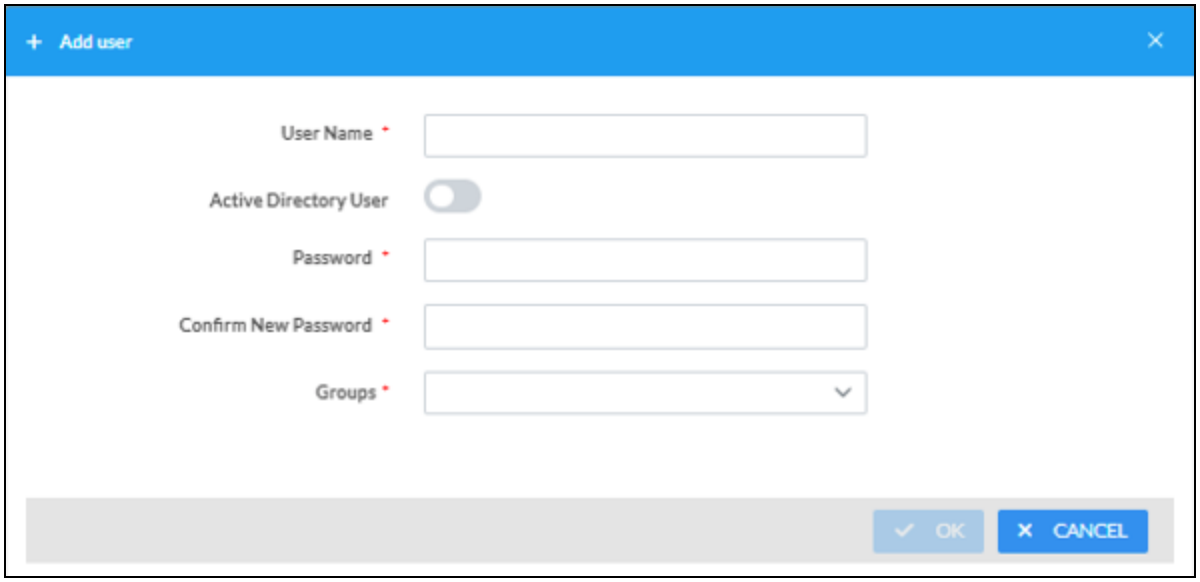


Touch screen users are listed in table format. The following information is displayed for each touch screen user:

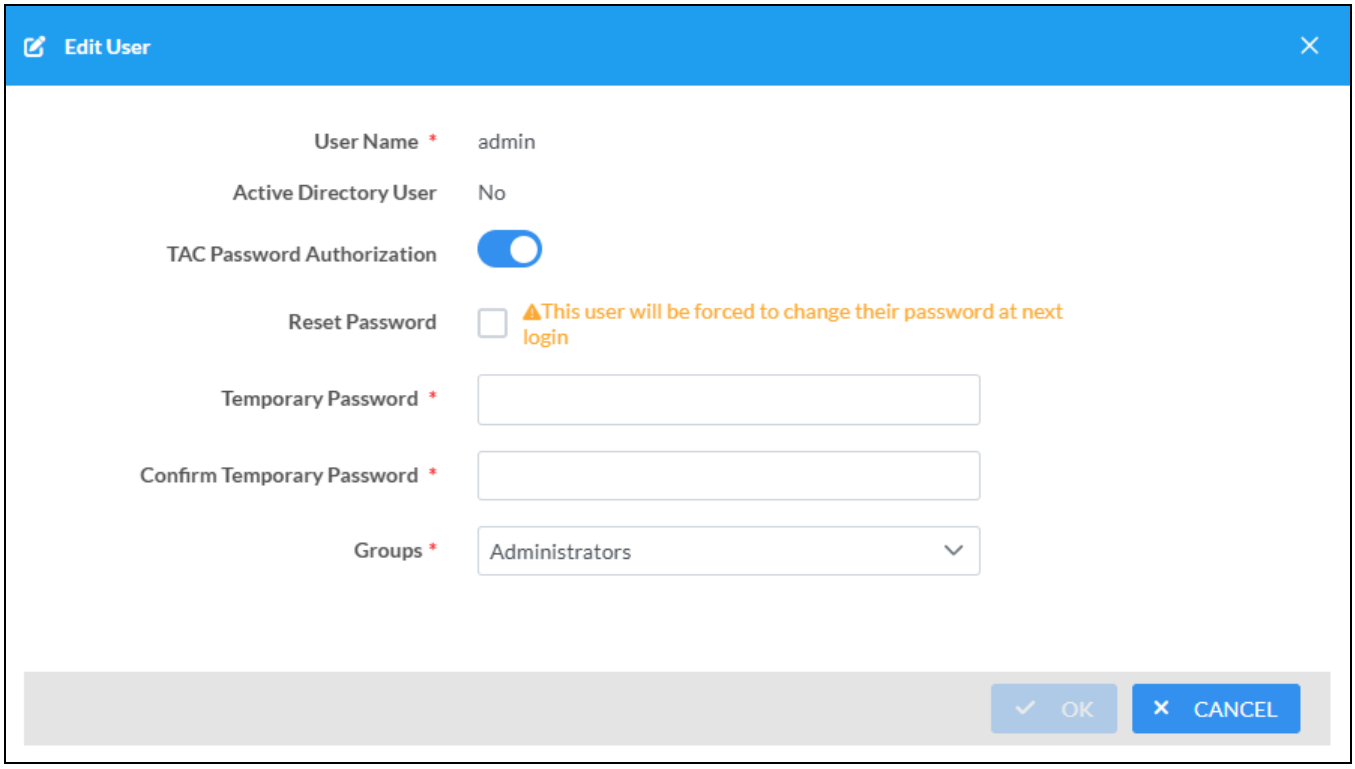
- **Username**: The chosen username
- **Active Directory User**: Reports whether the user is (**Yes**) or is not (**No**) authenticated through Active Directory

> **NOTE:** A user must be added to an Active Directory group before the user may be selected as an active directory user. For more information, refer to Web Configuration on page 148.

Use **Add User** to add new user information.



Select **Edit User** to view or configured the following settings:



- **Name**: The chosen username
- **Active Directory User**: Turn on the toggle to use authentication via Active Directory for the selected user.
- **Reset Password:** Turn on to reset a password.
- **Password**: Enter a new password for the selected user.
- **Confirm Password**: Reenter the password provided in the **Password** field.
- **Groups**: Add the user to one or more groups.

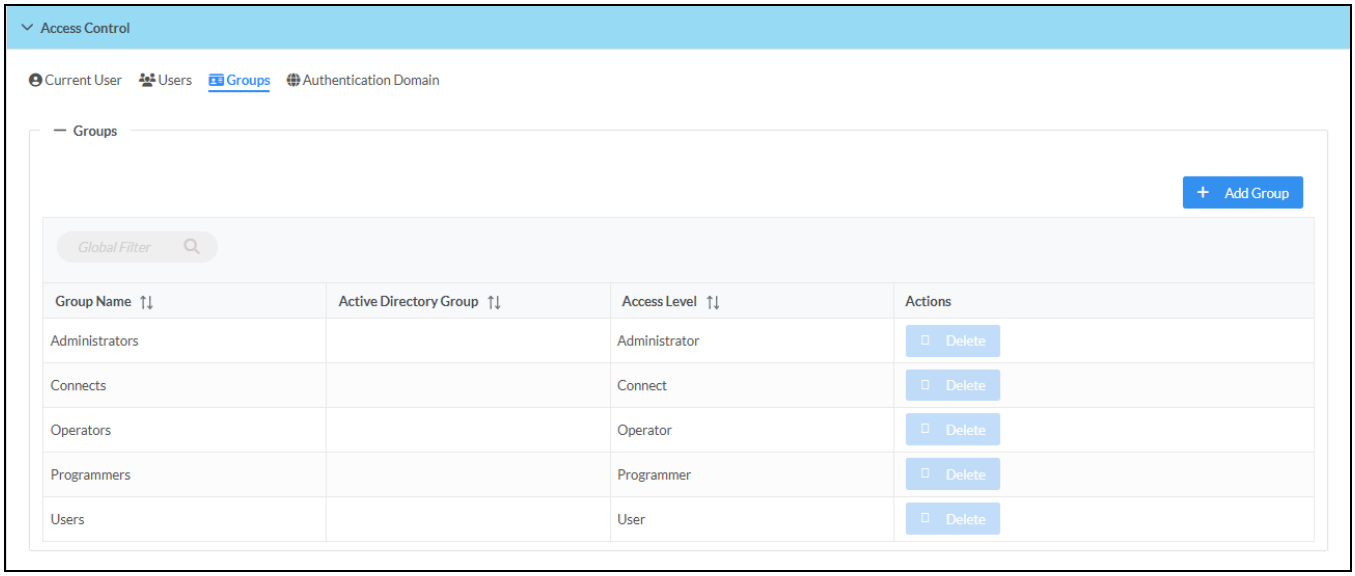
> **NOTE:** A user must be added to an Active Directory group to be selected as an Active Directory user.

Select **OK** to save any changes and to return to the **Users** accordion. Select **Cancel** to cancel any changes.

Select **Delete User** from the **Actions** column to delete user information. This button is inaccessible if only one user is configured for the touch screen.

Groups

Select the **Groups** tab to view and edit settings for touch screen groups. Touch screen groups are used to group users by access level and Active Directory authentication settings.



Enter text in to the **Global Filter** field to find and display groups that match the search term(s).

Touch screen groups are listed in table format. The following information is displayed for each touch screen group:

- **Group Name**: The chosen group name
- **Active Directory Group**: Reports whether the group is (**Yes**) or is not (**No**) authenticated through Active Directory

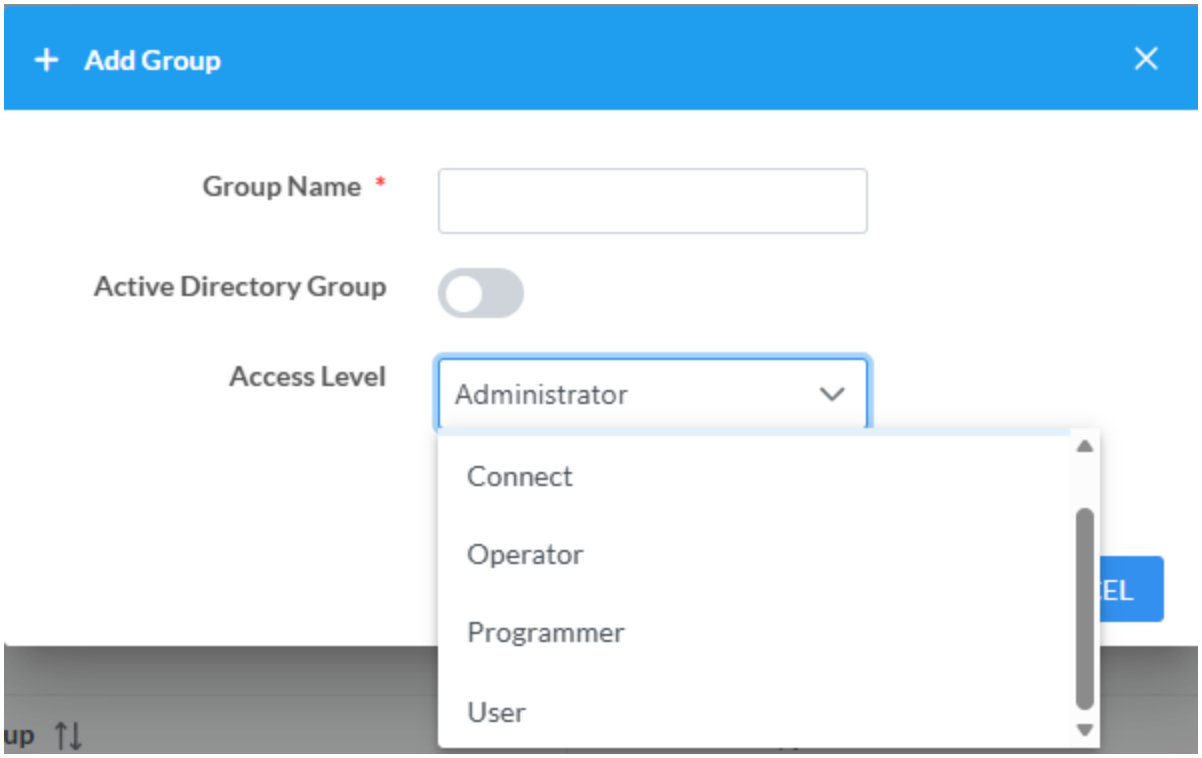
  > **NOTE:** Active Directory provides an additional layer of authentication for touch screen groups and users. Active directory group and user names are stored in the touch screen console along with a unique SID (security identifier). When an Active Directory user attempts to authenticate against the console, the console first checks the user credentials. If the Active Directory authentication is successful, Active Directory queries the console for the user or group's SID. The user is granted access to the touch screen only if at least one SID match is found.

- **Access Level**: The access level for the selected group (**Administrator**, **Programmer**, **Operator**, **User**, or **Connect**)

If the touch screen groups span multiple pages, use the navigation arrows on the bottom of the page to move forward or backward through the pages, or select a page number to navigate to that page. Additionally, the number of groups displayed on each page may be set to 5, 10, or 20 users.

An **Actions** column is also provided for each group that allows the user to delete groups.

Select **Add Group** at the bottom of the page to create a new touch screen group. The **Add Group** dialog box is displayed.



Use the following settings to create a new group:

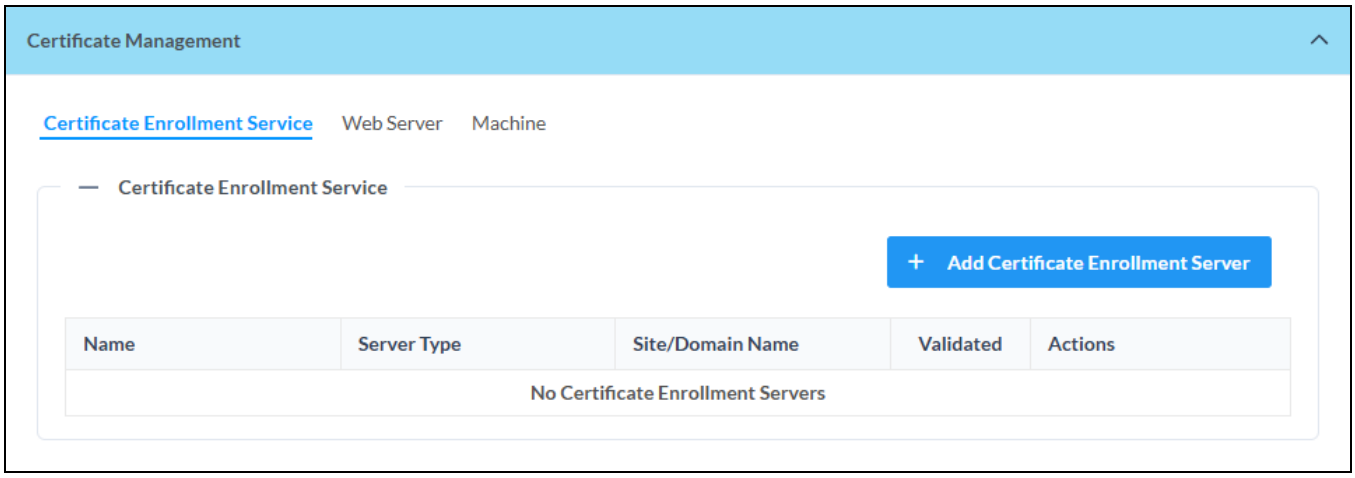
- **Name**: Enter a group name.
- **Active Directory Group**: Turn on the toggle to use authentication via Active Directory for the group.
- **Access Level**: Select an access level for the group and its users from the drop-down menu.

Select **OK** to save any changes and to return to **Groups**. Select **Cancel** to cancel creating a new group.

Certificate Management

Select **Certificate Management** to configure certificate settings for the touch screen and enable automatic certificate enrollment.

> **NOTE:** Automatic certificate enrollment requires a Certificate Enrollment Service to be assigned to an existing Certificate Signing Request.



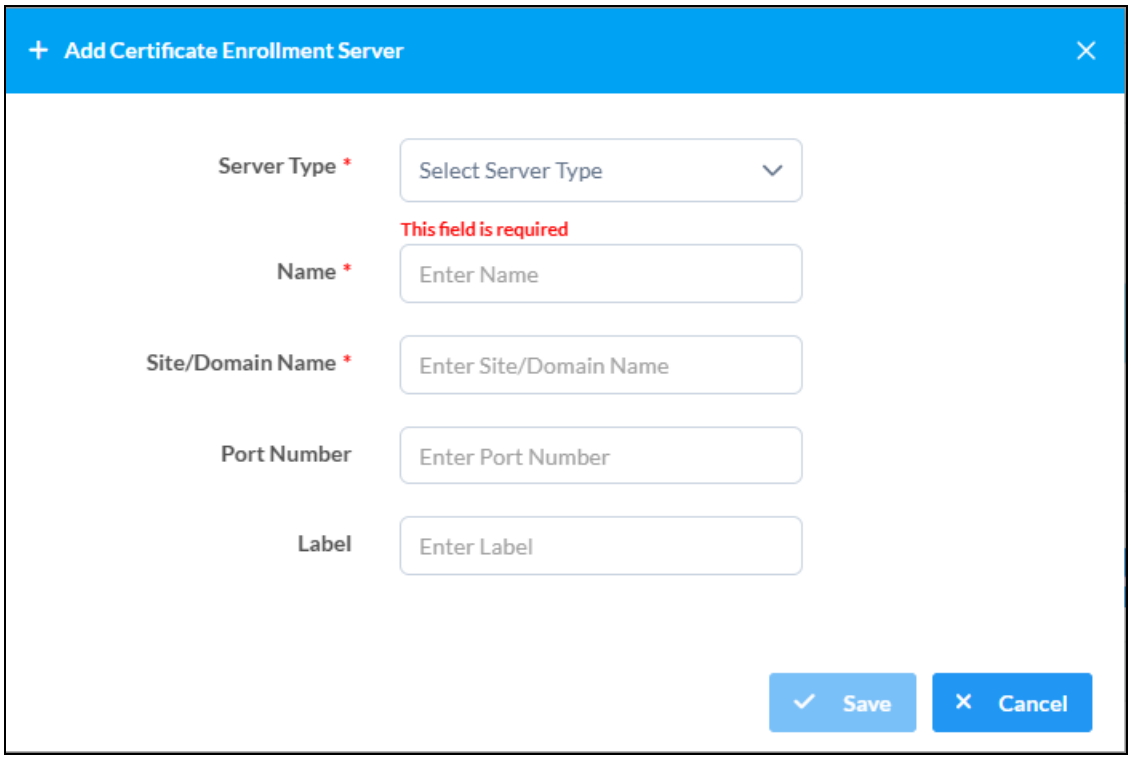
Use the following settings to add or delete certificates.

Certificate Enrollment Service

Select the **Certificate Enrollment Service** tab to view and edit certificate enrollment server information. The following settings are displayed:

- **Name:** The Certificate Enrollment Service (CES) name
- **Server Type:** Reports the server type (**EST** or **SCEP**) for the chosen CES
- **Site/Domain Name:** Reports the domain name of the certificate
- **Validated:** Reports the certificate validation status
- **Actions:** Reports any access control actions or restrictions

To add a new CES, select **Add Certificate Enrollment Server** and configure the following server settings:

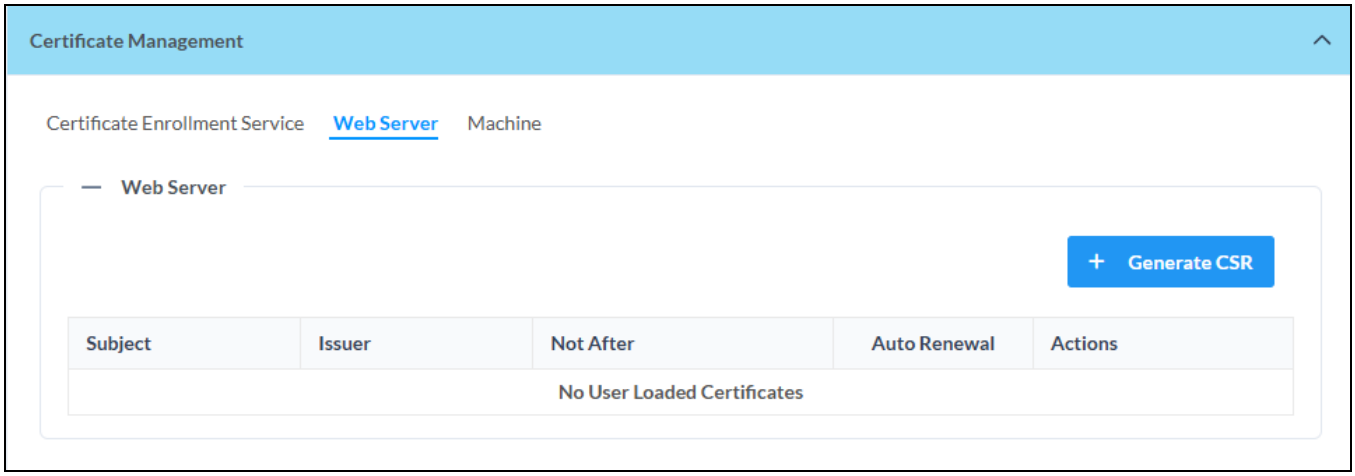


- **Server Type:** Select either **EST** (Enrollment over Secure Transport) or **SCEP** (Simple Certificate Enrollment Protocol) from the drop down menu
- **Name:** Enter the server name
- **Site/Domain Name:** Enter the URL or IP address of the desired CES
- **Port Number:** Enter the established port number associated with the desired server
- **Label:** Enter a desired identifier or tag to assign it to the certificate

Enter at minimum the **Server Type** (**EST** or **SCEP**), **Name**, and **Site/Domain Name** of the new CES. Then, select **Save**.

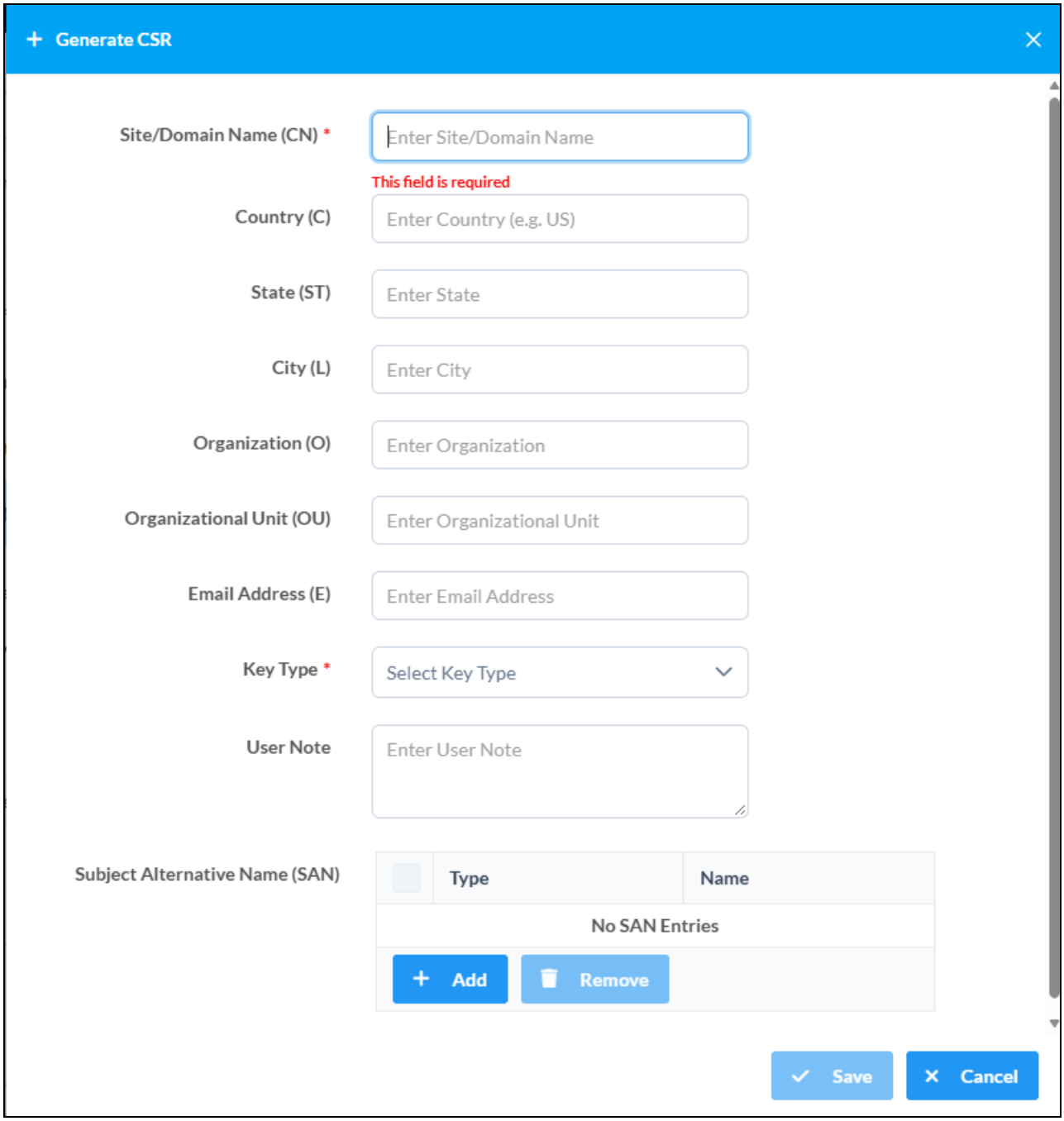
Web Server

Select the **Web Server** tab to view and edit web server and Certificate Signing Request (CSR) information. The following information is displayed:

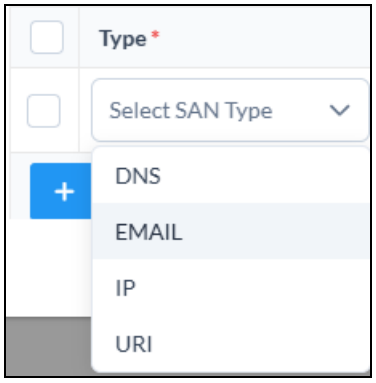


- **Subject:** Identifies the certificate used by the Certificate Authority (CA)
- **Issuer:** Reports the name or designation of the certificate issuer or CA
- **Not After:** Reports the expiration date and time of the certificate
- **Auto Renewal:** Reports whether or not auto renewal of the certificate is enabled
- **Actions:** Reports any access control actions or restriction

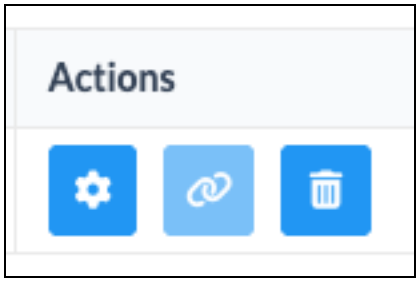
To create a new Certificate Signing Request:



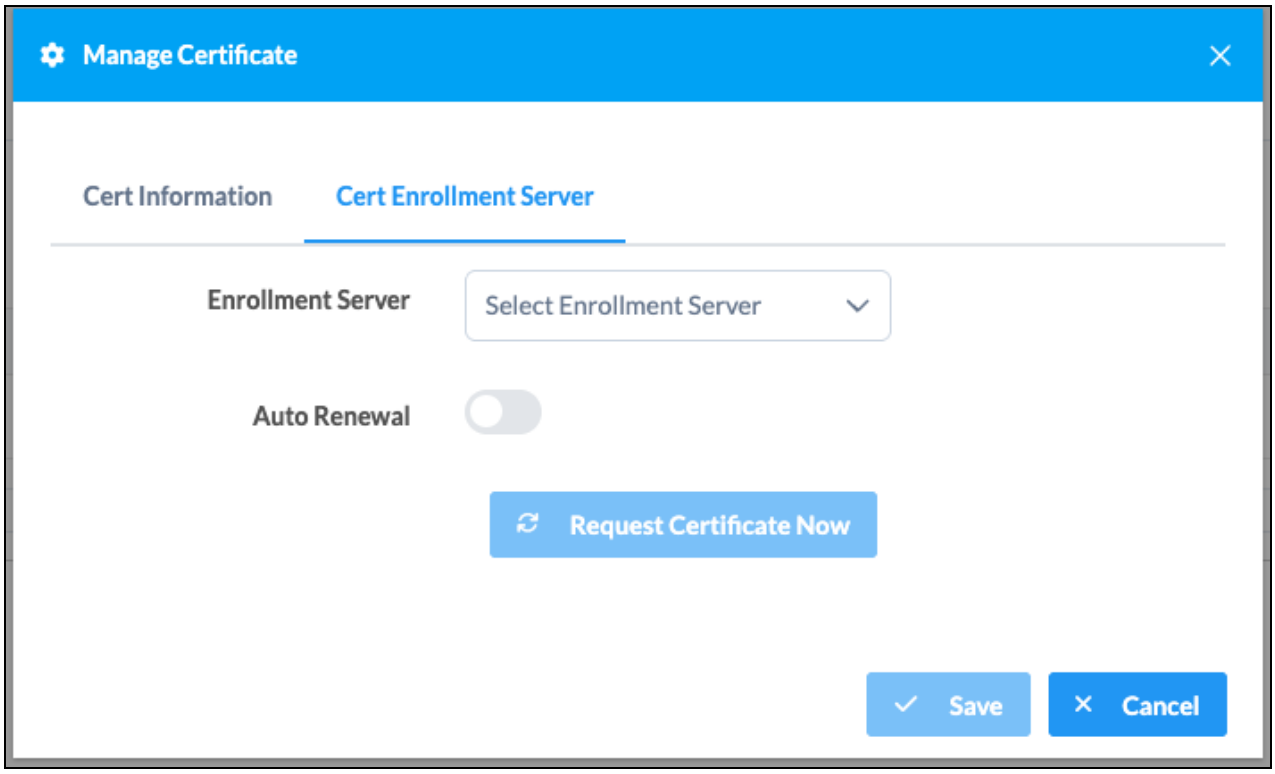
1. Select **Generate CSR**.
2. Enter at minimum the **Site/Domain Name** and **Key Type** as well as any additional applicable information.
    - **Site/Domain Name (CN):** The fully qualified domain name of your certificate
    - **Country (C):** Two letter ISO country code
    - **State (ST):** Full state, province, or region name
    - **City (L):** City or town name
    - **Organization (O):** Name of issuing company or entity
    - **Email Address (E):** Contact email
    - **Key Type:** Select the algorithm and properties of your certificate's key pair
    - **User Note:** Additional operating notes for users
3. If required, select **+ Add** in the **Subject Alternative Name** (SAN) setting to add a new SAN entry.
4. Choose the applicable SAN (**DNS**, **EMAIL**, **IP**, **URI**).



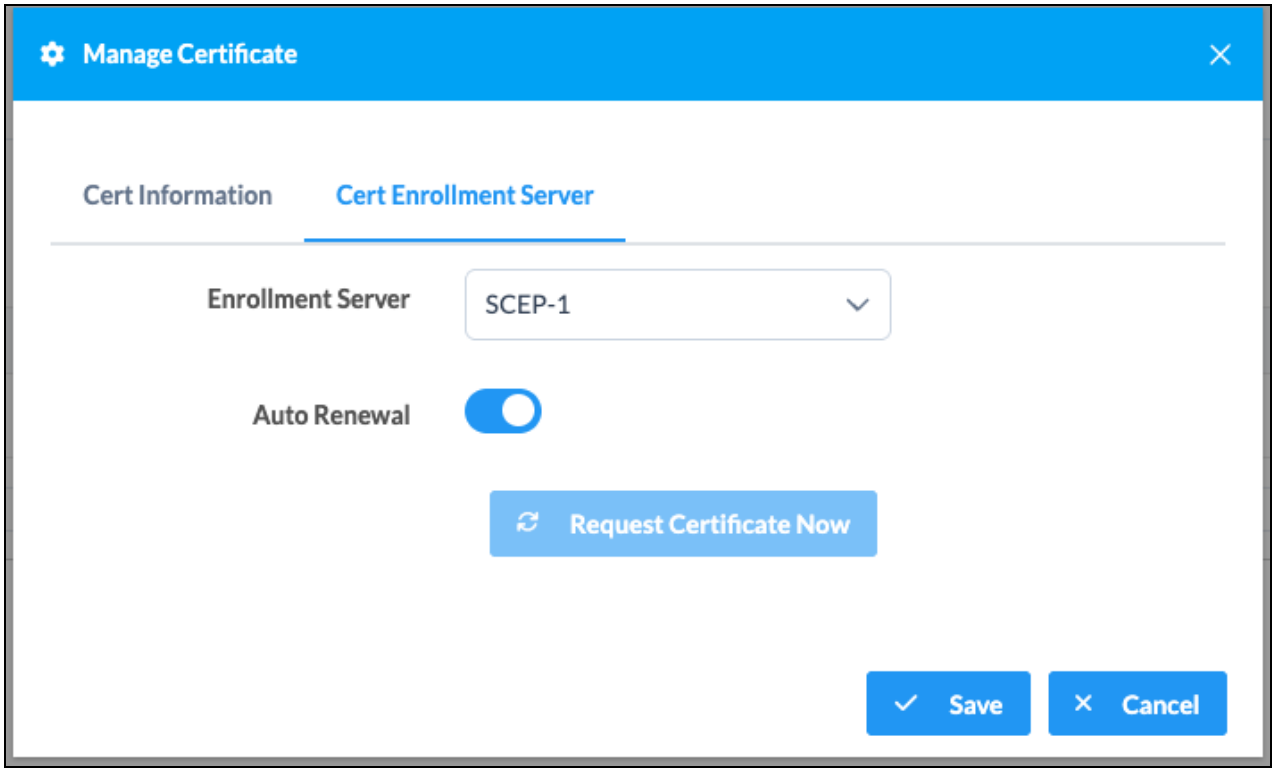
5. Select **Save**.
6. To enable automatic re-enrollment, select the gear icon in the **Actions** tab to **Manage Certificates**.



7. Select the **Cert Enrollment Server** tab.



8. Select the descried **Enrollment Server** from the drop-down menu.

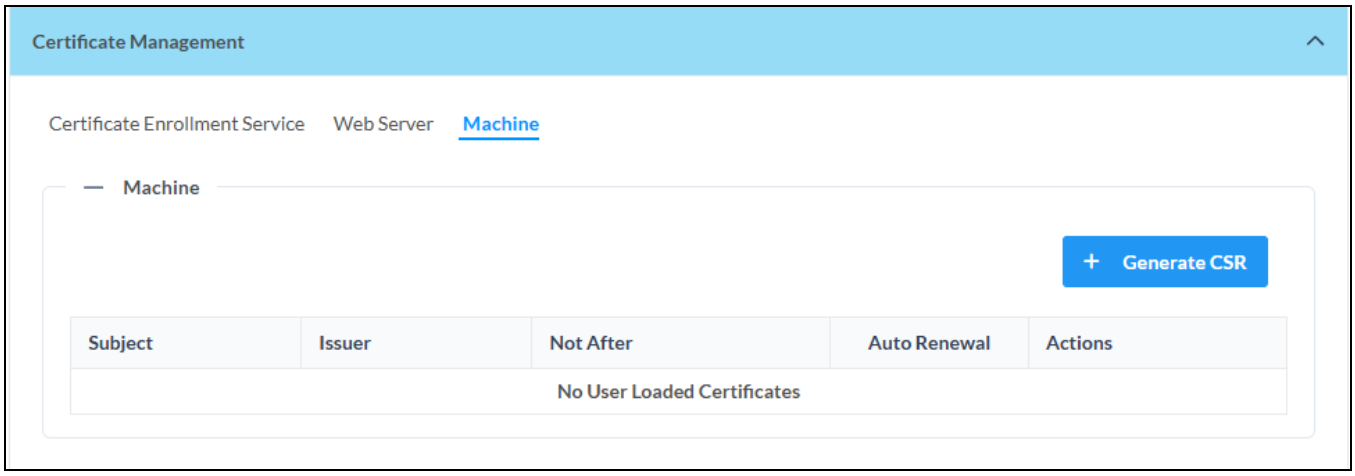


9. Turn on the **Auto Renewal** toggle to enable re-enrollment.

10. Select **Save**.

Machine

Select the **Machine** tab to view and edit web server and Certificate Signing Request (CSR) information. The following information is displayed:



- **Subject:** Identifies the certificate used by the Certificate Authority (CA)
- **Issuer:** Reports the name or designation of the certificate issuer or CA
- **Not After:** Reports the expiration date and time of the certificate
- **Auto Renewal:** Reports whether or not auto renewal of the certificate is enabled
- **Actions:** Reports any access control actions or restriction

To create a new Certificate Signing Request, refer to Web Server on page 188.

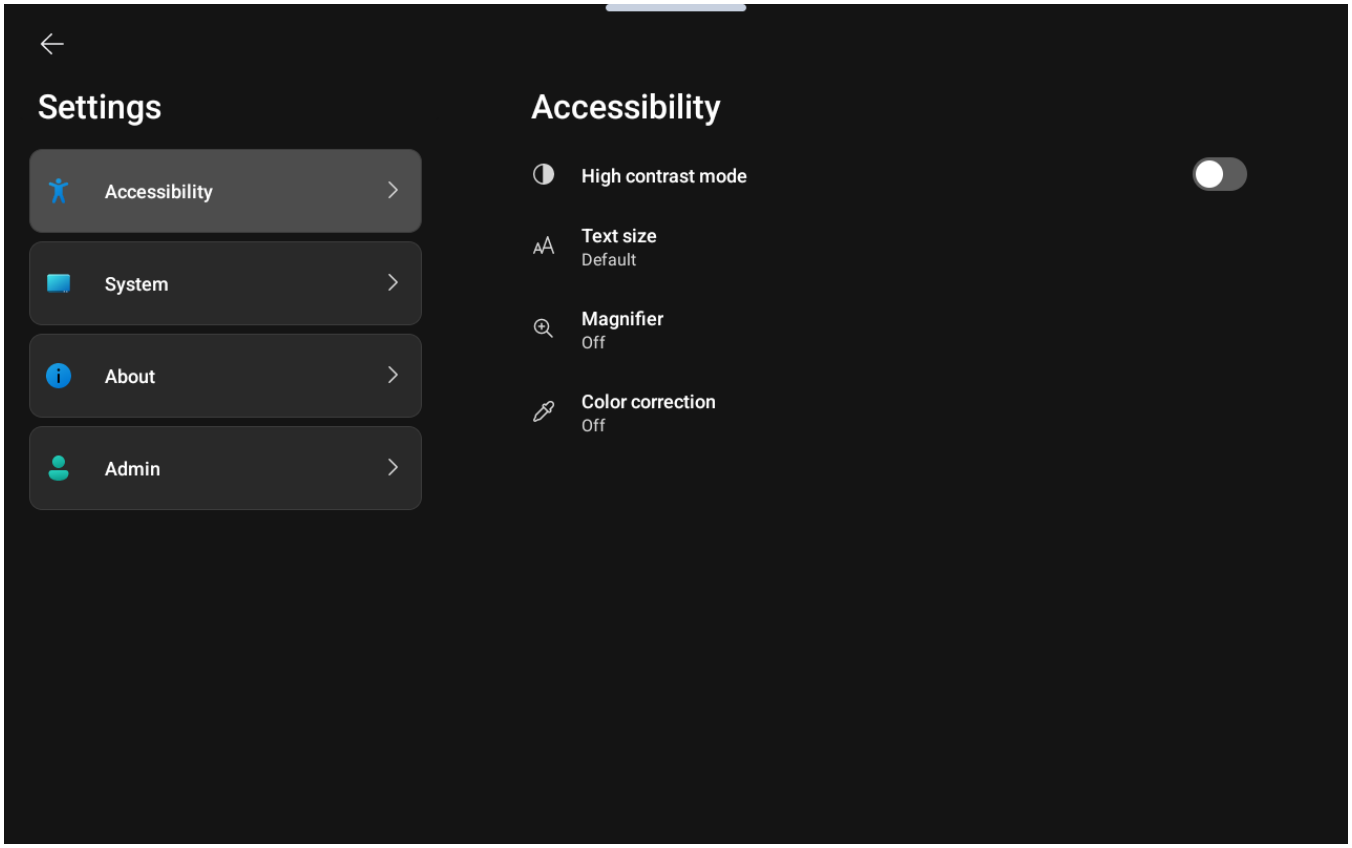
Local Configuration

Refer to the following sections for information about configuring the device locally using its built-in setup screens.

> **NOTE:** Some features are unavailable with the TSS-880-GV and TSS-1080-GV.

Access the Settings Screens

To access the touch screen's built-in settings screens during regular operation, press five fingers on the screen for fifteen seconds.



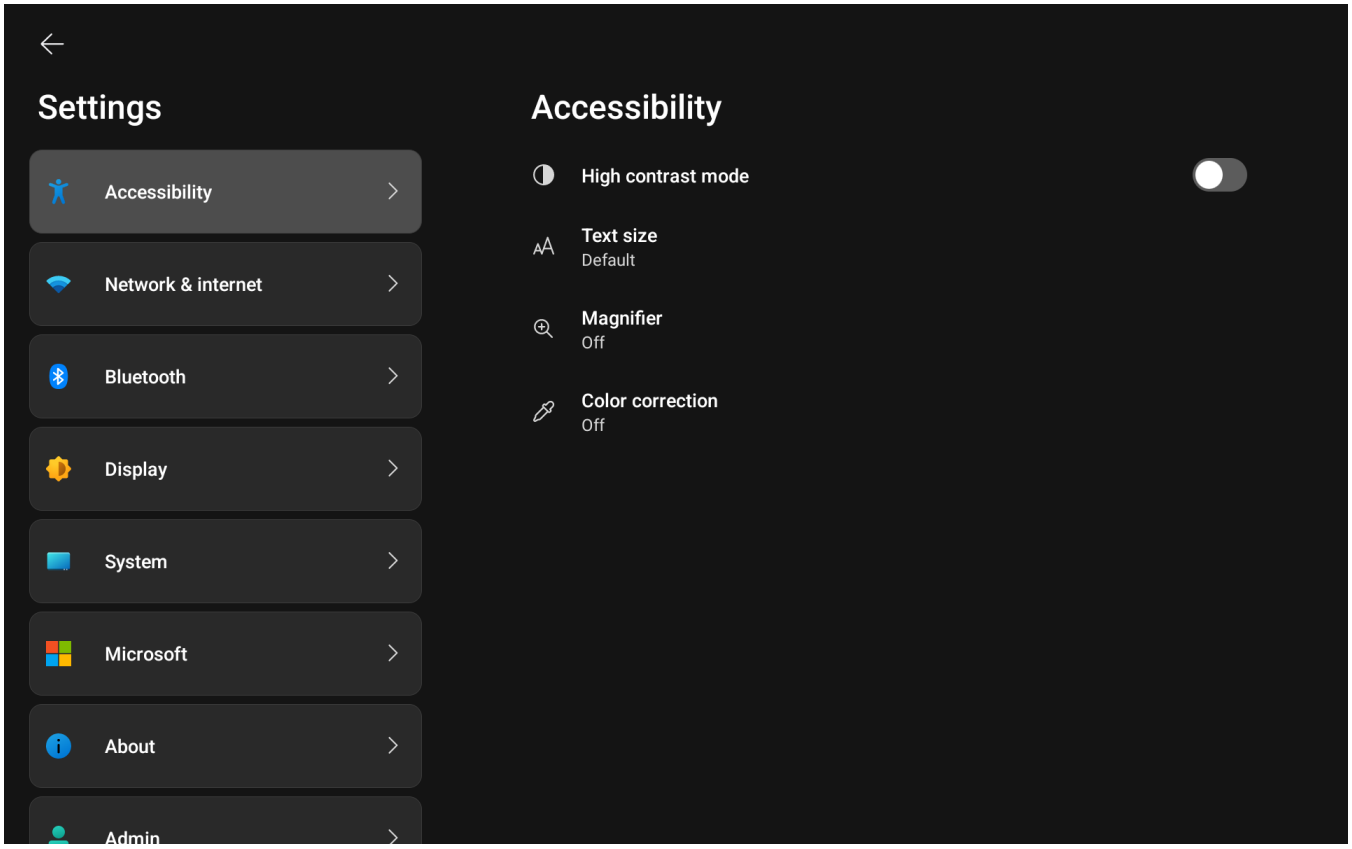
The settings screen provides several accessibility and system configuration settings as well as device information.

To access administrator level settings, select the **Admin** tab from the left menu and log into an administrator account. Some settings are not available without administrator privileges.

The functions of each tab are detailed in the following sections.

Accessibility

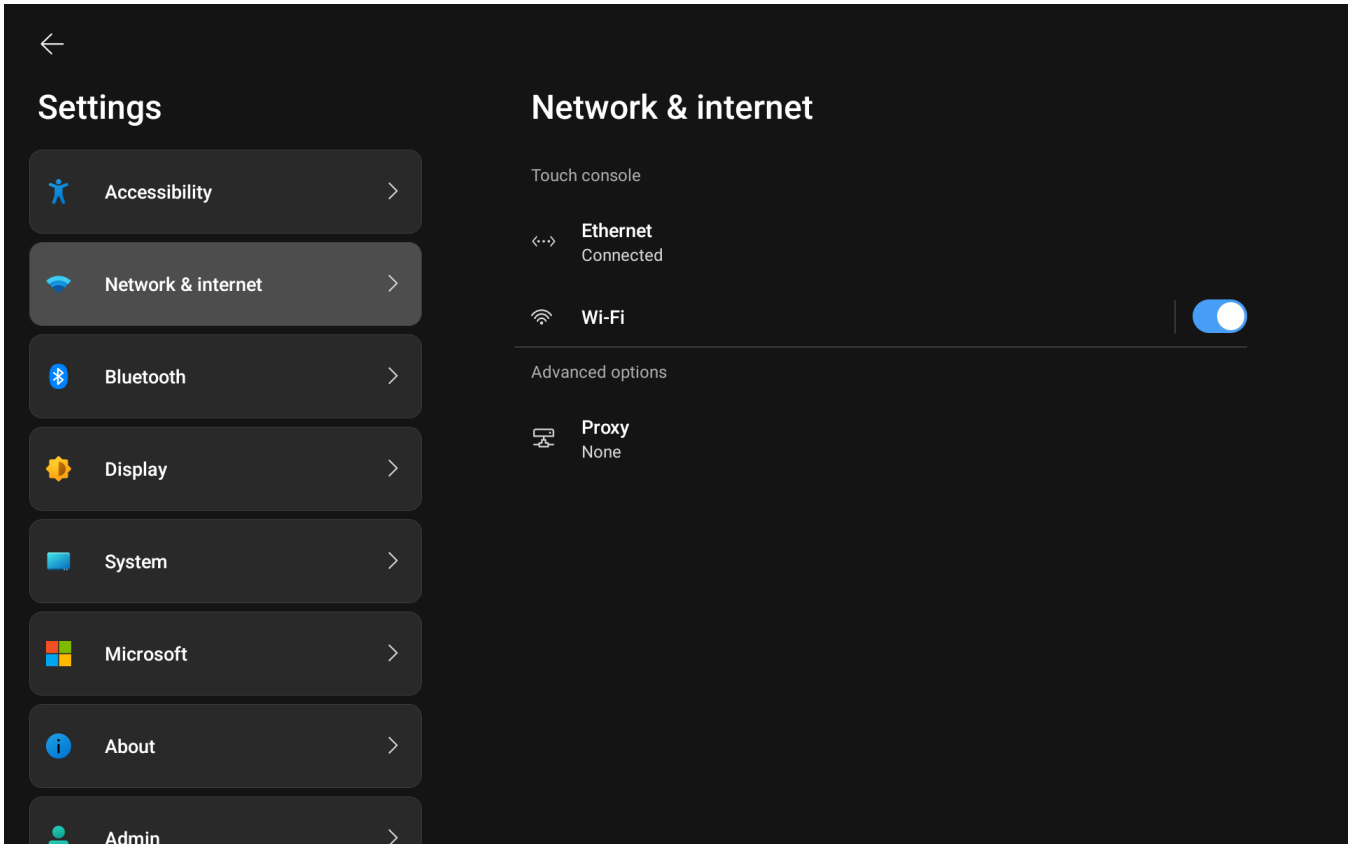
Select **Accessibility** on the **Settings** screen to display customizable accessibility settings. The following configuration settings are shown:



- **High Contrast Mode**: Turn on or off **High Contrast Mode** to affect the background and text colors.
- **Text size:** Select preferred text size from **Small**, **Default**, **Large**, and **Largest.**
- **Magnifier:** Turn on **Magnifier** to quickly zoom in on content. Magnifier starts and stops by triple-tapping anywhere on screen.
- **Color correction:** Turn **Color correction** on and off to compensate for blue light.

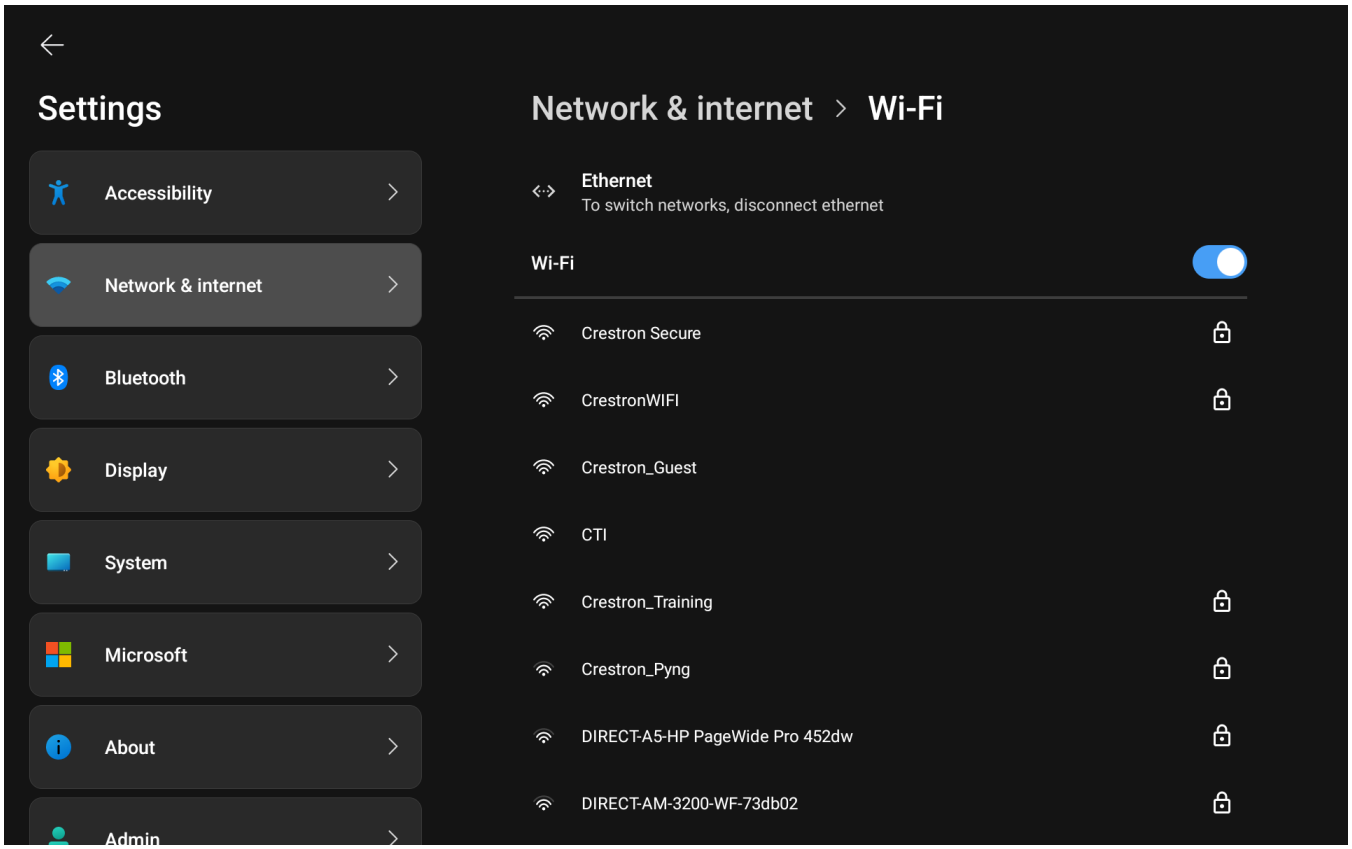
Network Settings

Select **Network** on the Settings screen to display the **Network & Internet** screen.



> **NOTE:** You must be logged in as an admin to edit network settings. Navigate to the Admin screen on the Settings page to log in.

Use the **Wi-Fi** screen and select a network to view the Wi-Fi network MAC and IP addresses, subnet mask address, default router address, primary and secondary DNS addresses, host name, domain, and various details about the Wi-Fi connection.



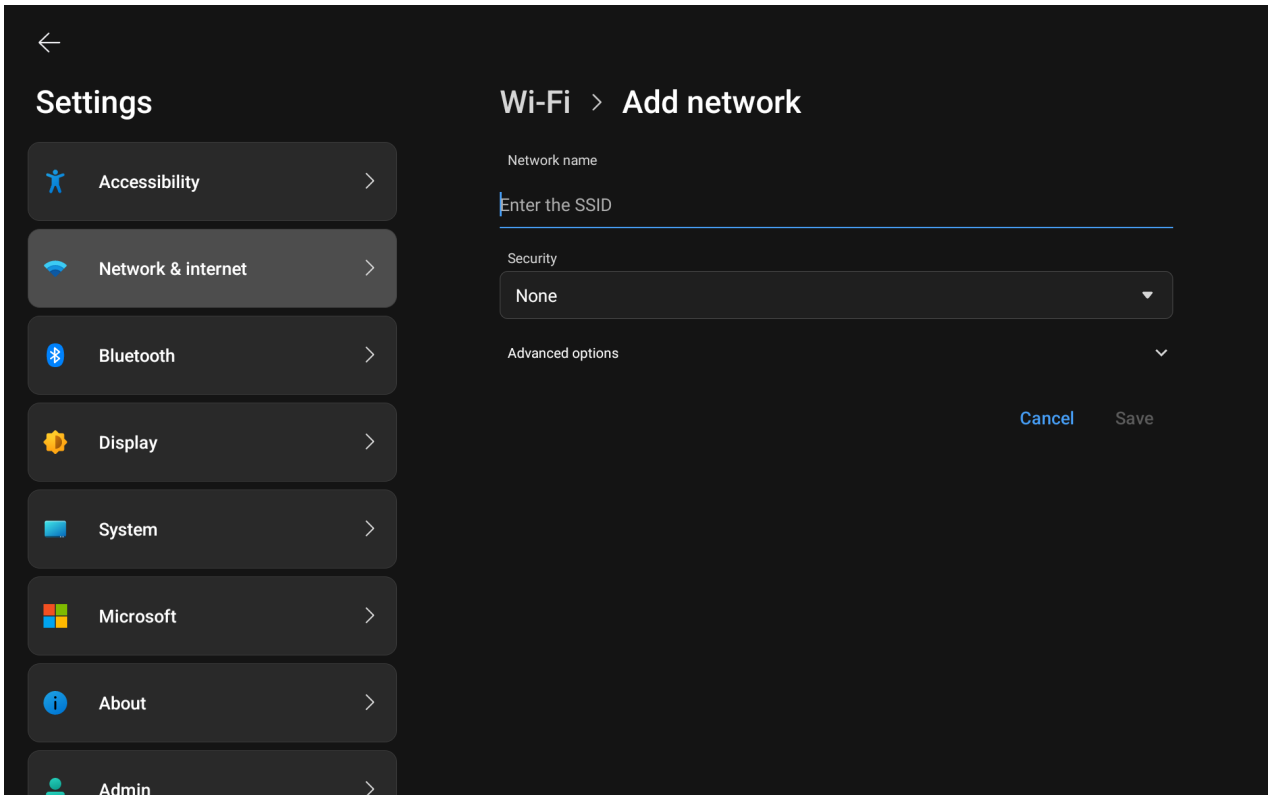
NOTES:

- Ethernet must be disabled before a Wi-Fi connection can be configured.
- Wi-Fi is disabled on -GV models.

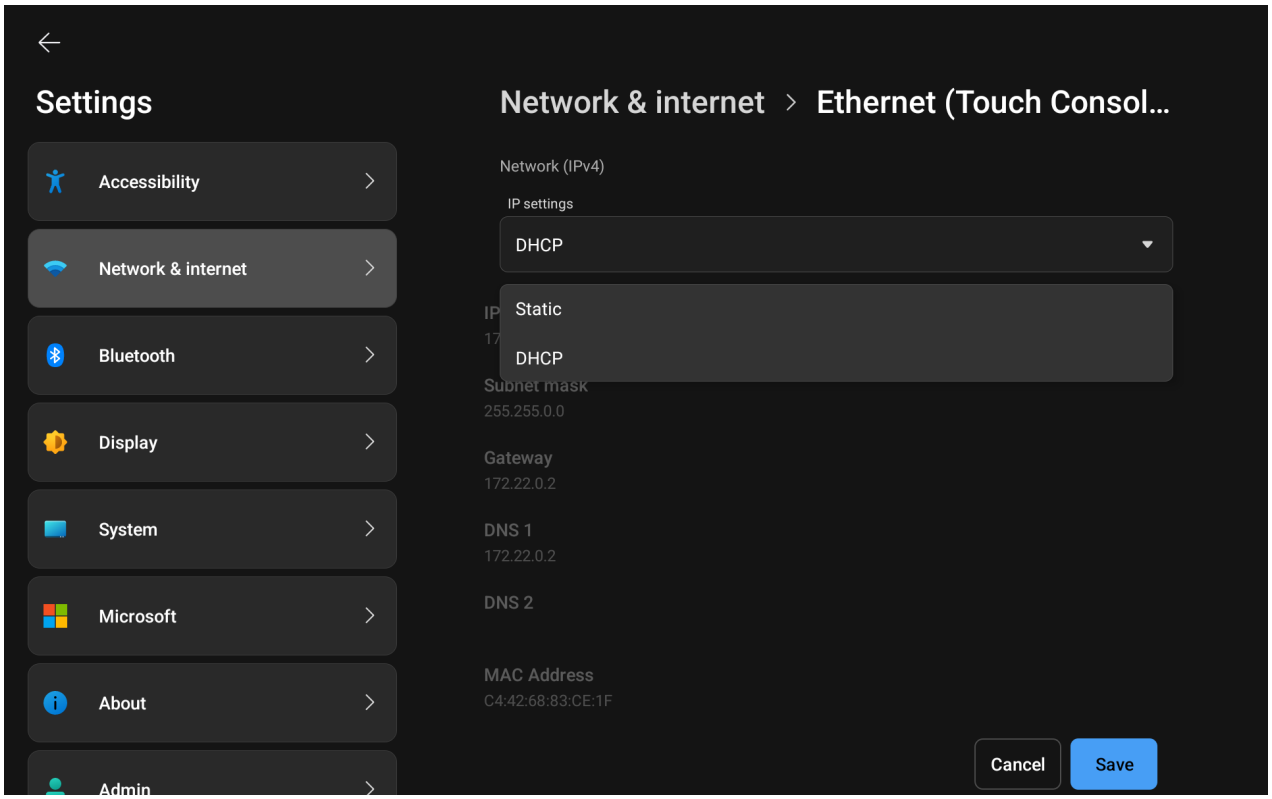
The following buttons are provided for configuring Wi-Fi settings:

- Select **On** or **Off** under **Wi-Fi** to turn the Wi-Fi adapter on or off. If **Wi-Fi** is set to **Off**, Wi-Fi will not function and an Ethernet connection can be established.

- Select **Add Network** at the bottom of the screen to manually add Wi-Fi information.



- Use the drop down menu to select DHCP (Dynamic Host Configuration Protocol) or Static IP.



> **NOTE:** DHCP is enabled on the touch screen by default.

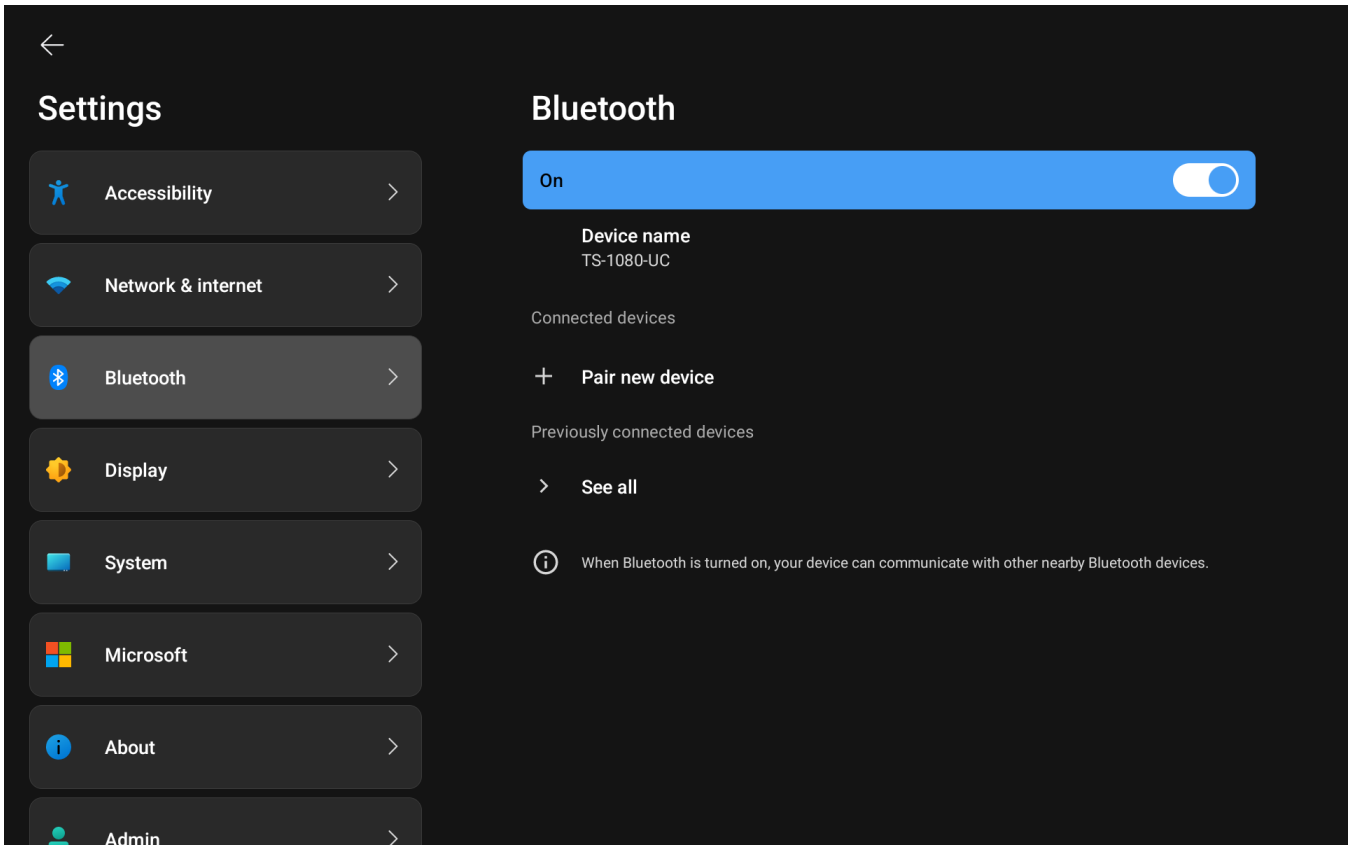
- Select **Save** to apply any new Wi-Fi settings to the touch screen and to stay in setup mode.

Select the **BACK** arrow to return to the Settings screen.

Bluetooth

Select **Bluetooth** on the Settings screen to display the **Bluetooth** screen.

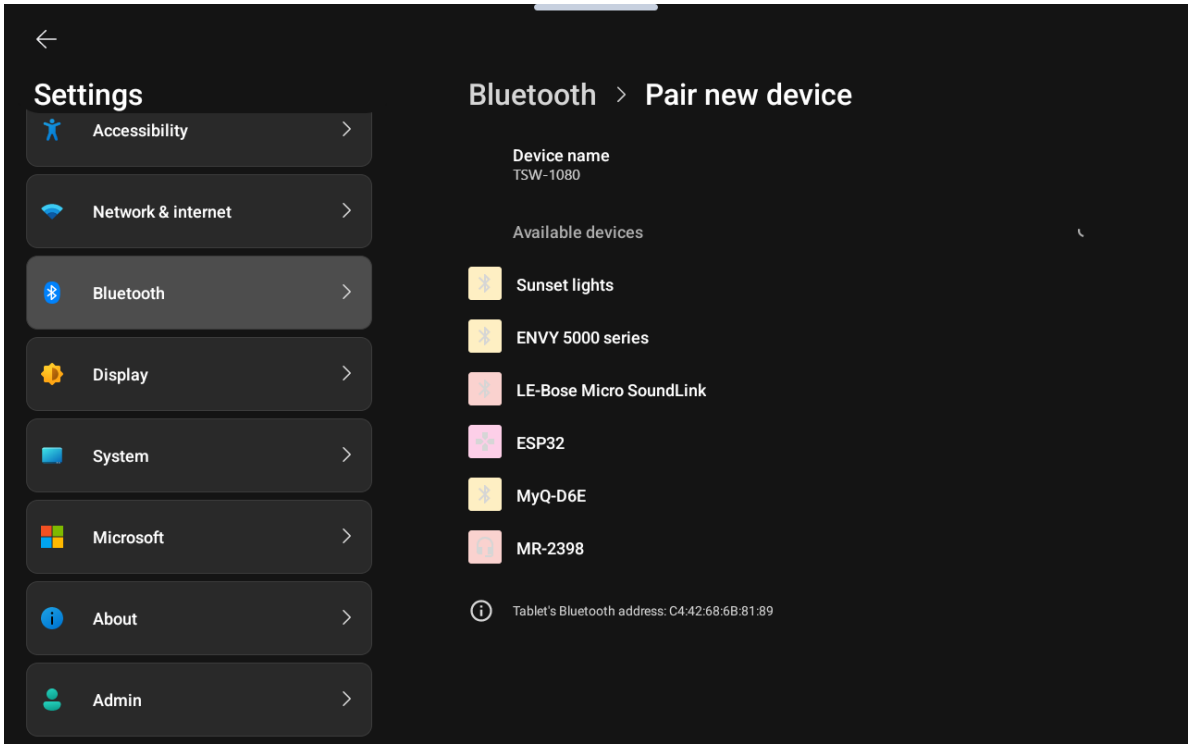
> **NOTE:** Bluetooth is unavailable on -GV models.



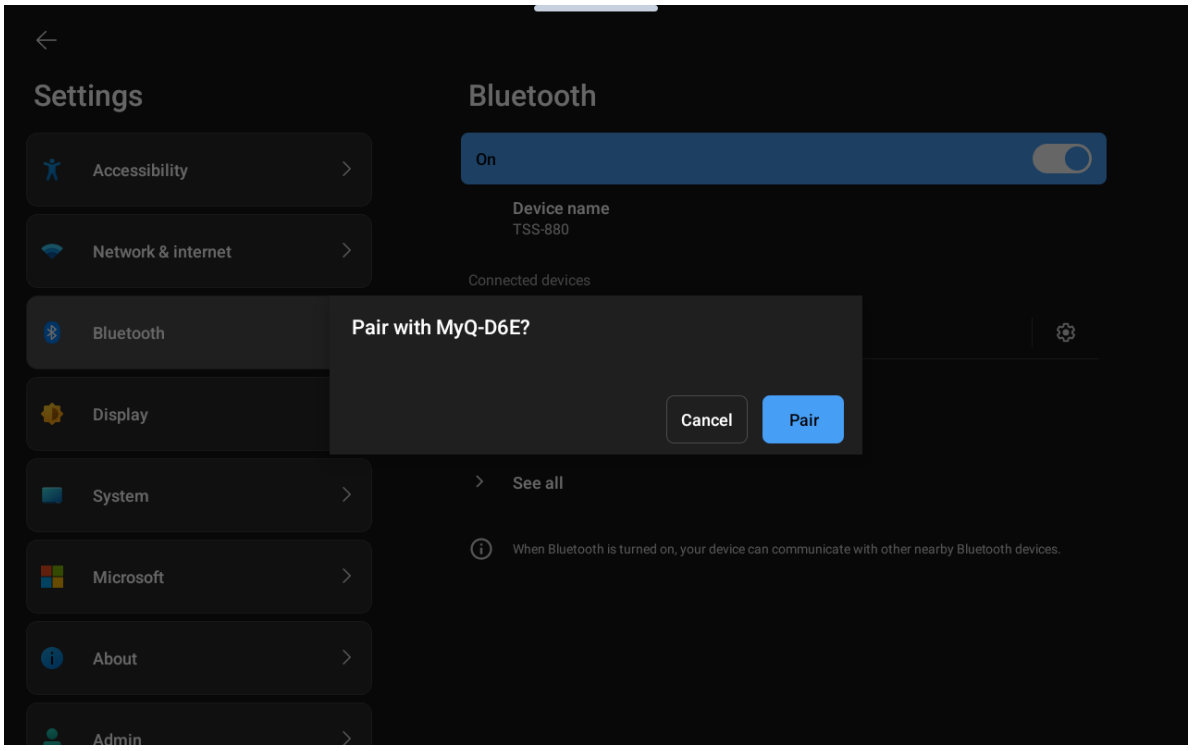
The following buttons or controls are provided for configuring Bluetooth settings:

- Turn **Bluetooth** on or off to enable or disable the Bluetooth function.

- Select **Pair new device** to connect a new Bluetooth device.
    - Select the desired device from the list of **Available Devices**. Your device must be in pairing mode to connect over Bluetooth.



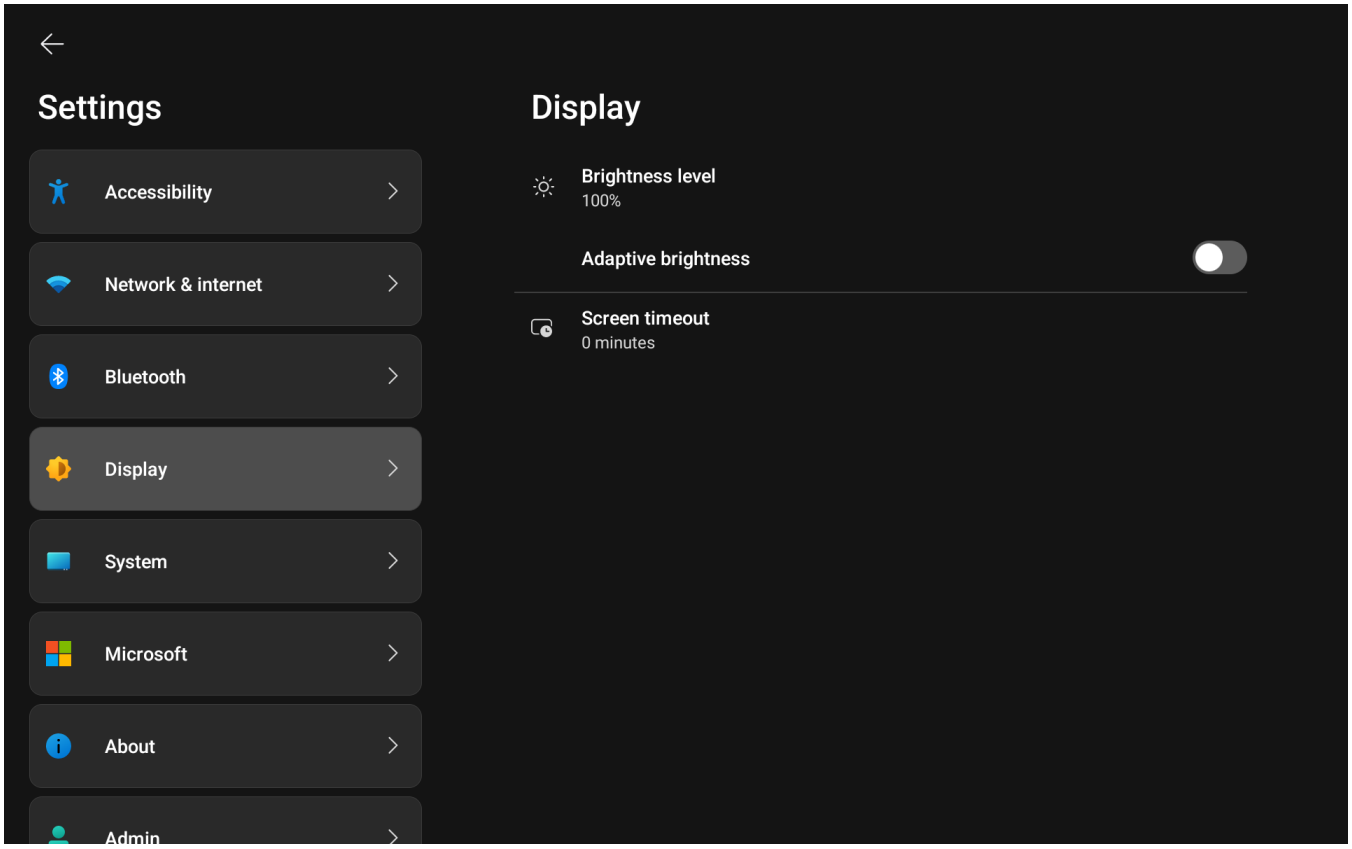
- The following pop-up window will display. Select **Pair**.



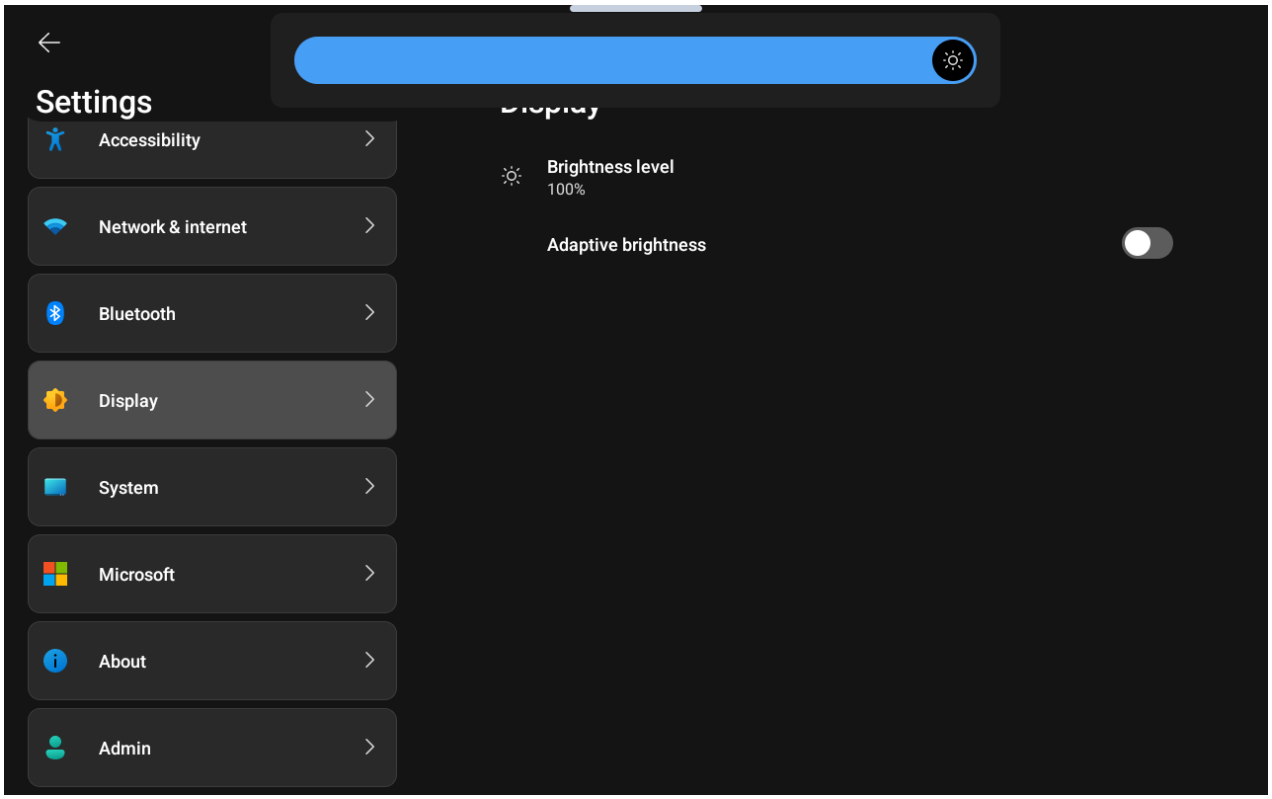
- Select the menu under **Previously connected devices** to display previous connections.

Display

Select **Display** on the Settings screen to access the **Display** screen.



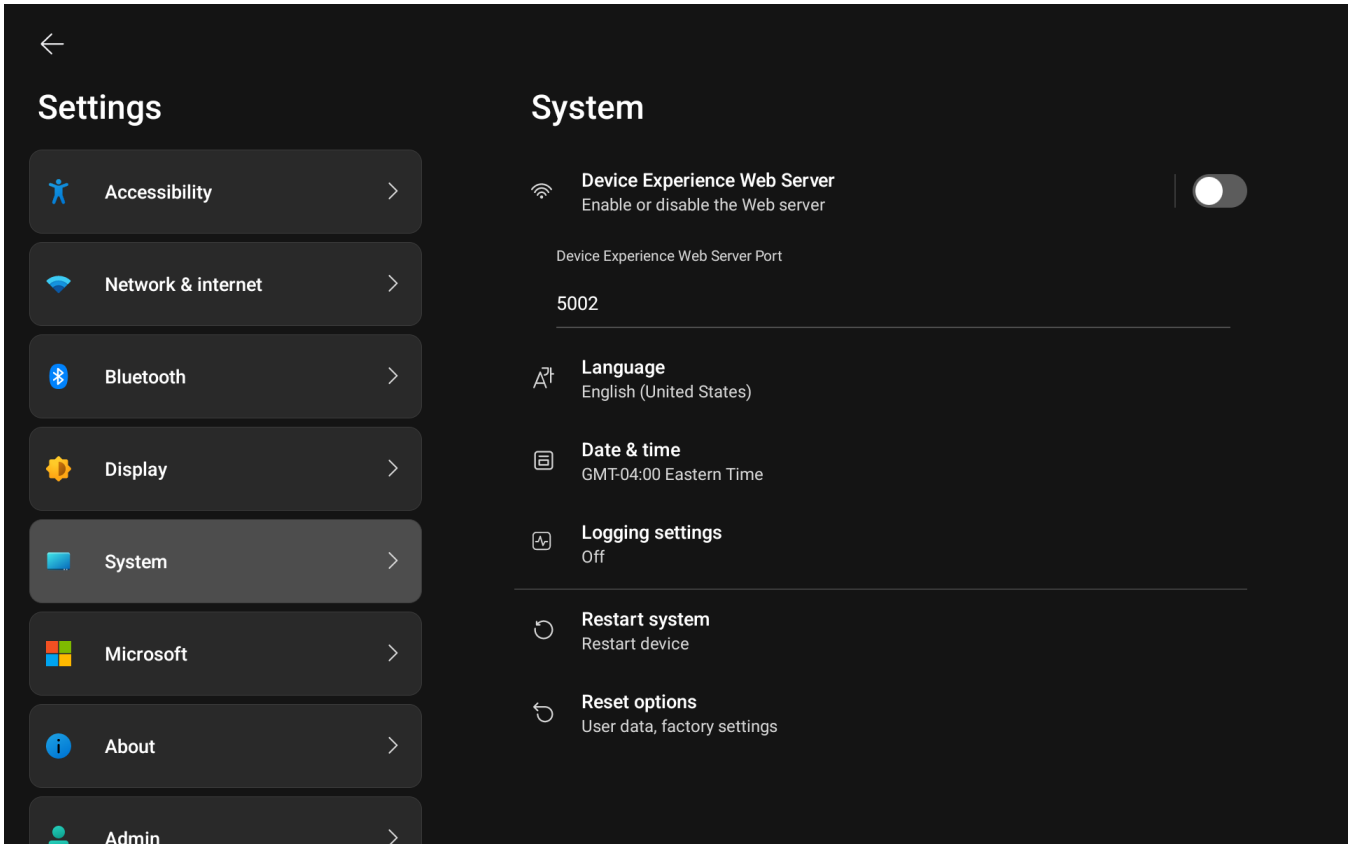
- Use the slider under **Brightness** to raise or lower the LCD display brightness level incrementally from 0 to 100%.



- Toggle **On** under **Adaptive Brightness** to allow the touch screen to adjust brightness levels, depending on the on-screen display, to provide ideal contrast levels.

System

Select **System** on the Settings screen to access the **System** screen.



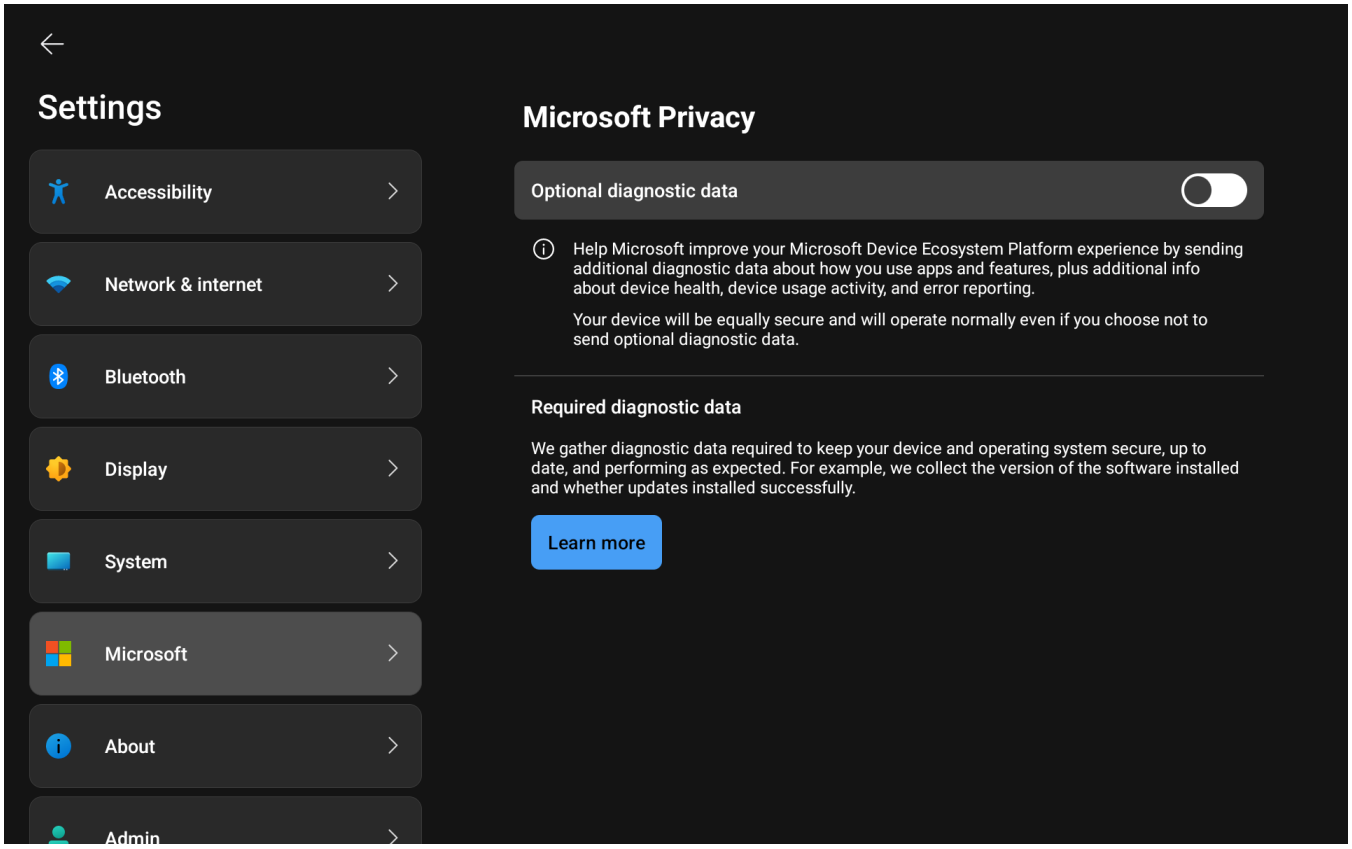
The following buttons or controls are provided for configuring System settings:

- Toggle on or off under **Device Experience Web Server** to enable or disable the web server. The port number is displayed.
- Select **Language** to change the device language. Use the pop-up menu to select the desired language.
- Select **Date & Time** to edit the date and time zone.
- Turn **Logging settings** on or off to begin logging data.
- Select **Restart system** to restart the device.
- Select **Reset options** to choose factory reset or user data reset.

> **CAUTION:** Performing a factory restore returns all settings to their default values and removes any static IP addresses, IP table connections, and wireless access points (WAPs) that were previously added.

Microsoft

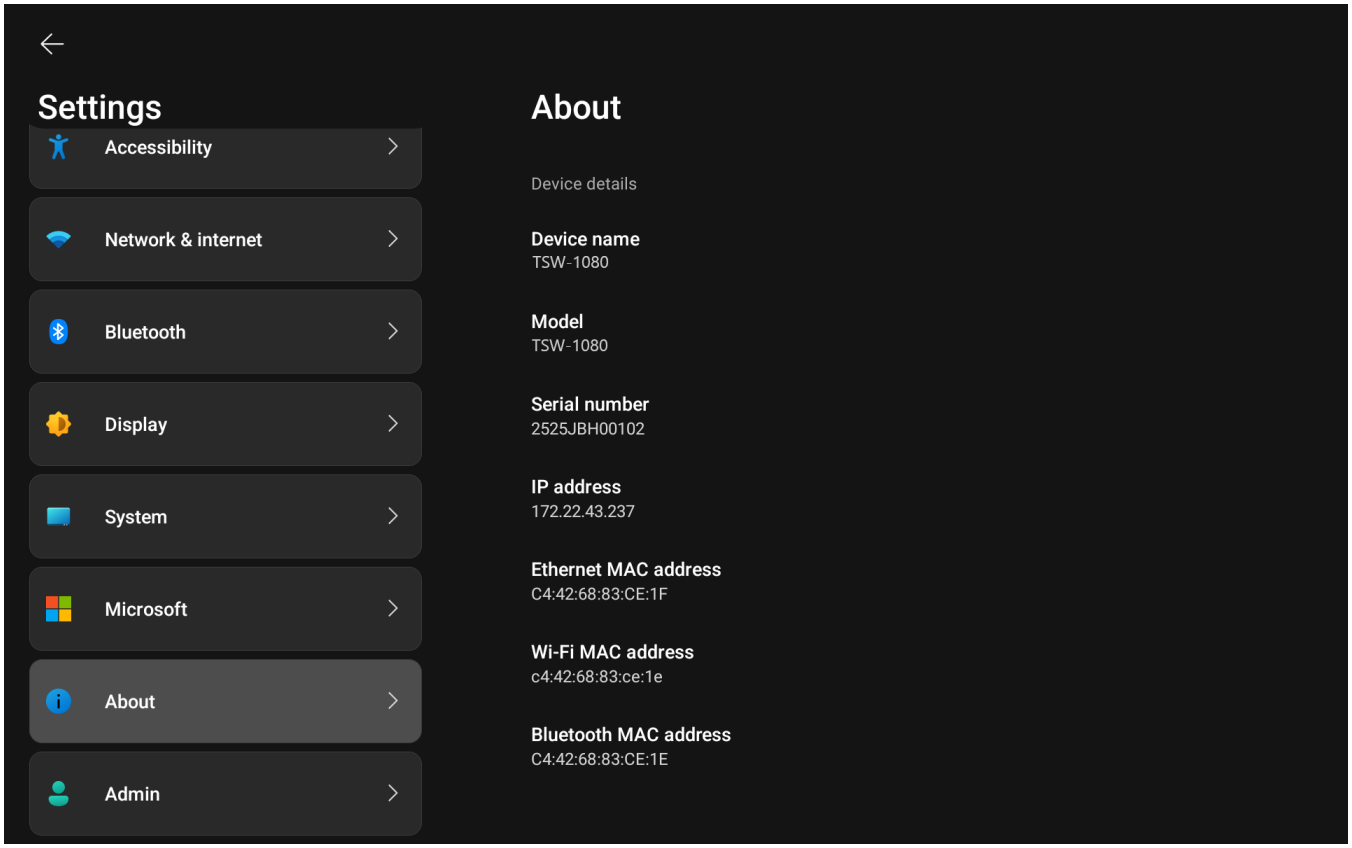
Select **Microsoft** to access the **Microsoft Privacy** screen.



Turn **Optional diagnostic data** on or off to enable sending Microsoft information on use, device health, usage activity, and errors.

About

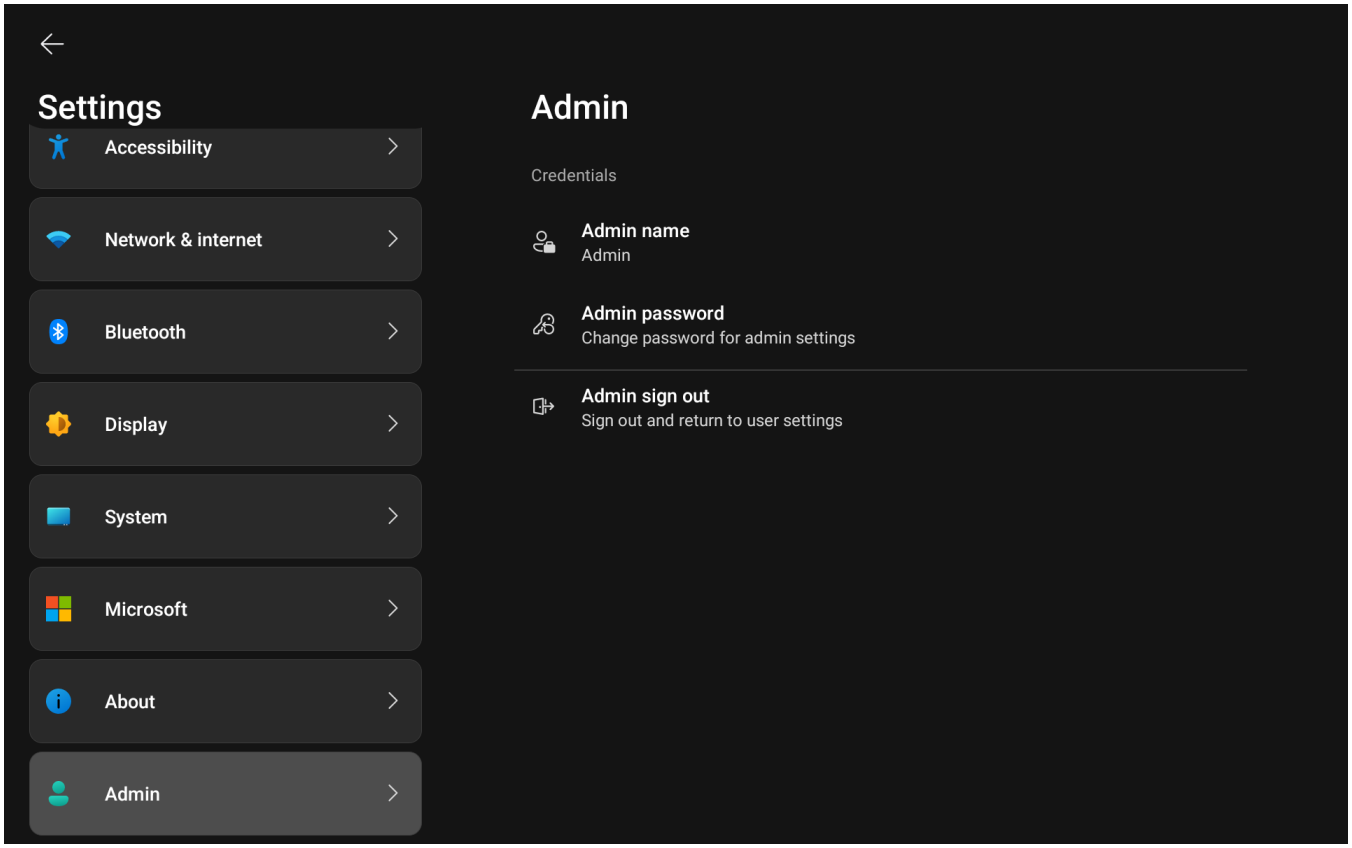
Select **About** to see device details on the **About** screen.



Device name, model, serial number, IP address, Ethernet MAC address, Wi-Fi MAC address, and Bluetooth MAC address information are displayed.

Admin

The **Admin** screen requires administrator log in. Select **Admin** to access the screen.



- Select **Admin name** to display the admin username.
- Select **Admin password** to change the user profile password.
- Select **Admin sign out** to sign out of the administrator account.

Application Selection

The TSW-80 Series touch screens ship with a variety of preconfigured applications:

- Crestron room scheduling application
- Microsoft Teams® online meeting solution application (not supported on TSW-880-GV)
- Microsoft Teams® Scheduling Panels application

External applications can be downloaded from the cloud and will install on the touch screen automatically. The following applications are supported:

> **NOTE:** -R models are only configured to run Crestron Home.

- Crestron general web application
- Crestron Home™ OS user control application
- Crestron HTML5 User Interface
- 22Miles® ADSign application
- Appspace® application
- Envoy® room scheduling application
- Eptura application
- Spaceti application
- Hyundai AutoEver application
- Zoom Rooms™ Scheduler application
- Zoom Rooms™ Controller application
- GoBright application
- Robin® application
- ORO application
- Joan application
- Korbyt™ room scheduling application
- Poppulo application
- Comeen application
- Maptician application
- Offision application
- Tango application
- Veris application
- OfficeRnD application
- EMS (Accurent) application

> **NOTE:** Support for additional applications will be provided by future firmware updates.

The touch screen runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron may run on the touch screen.

> **NOTE:** Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services.

For more information on using and setting up each application, refer to the provider's website.

Operation

The touch screen is controlled by using its capacitive touch screen display. The touch screen supports gesturing and swiping controls to perform various functions. Supported touch controls vary by application or program.

The virtual toolbar is used to perform basic device functions if it has been enabled. By default, the virtual toolbar can be accessed by swiping down on the tab located at the top of the screen. The toolbar can be hidden by swiping up on the tab or is hidden automatically after a set timeout duration.

The following virtual buttons are provided by default and can be used to control the touch screen or the loaded application or program (if supported).



NOTE: Virtual button functionality can be custom programmed using a Crestron control system.

- **Power:** Powers the touch screen off.
- **Home:** Returns to the home page of the application or program.
- **Lighting:** Navigates to lighting controls in the application or program.
- **Up:** Moves up a page in the application or program.
- **Down:** Moves down a page in the application or program.
- **Microphone:** Enables or disables the microphone functionality.

Resources

The following resources are provided for the TSW-80 Series.

> **NOTE:** You may need to provide your Crestron.com web account credentials when prompted to access some of the following resources.

Crestron Support and Training

- Crestron True Blue Support
- Crestron Resource Library
- Crestron Online Help (OLH)
- Crestron Technical Institute (CTI) Portal

Programmer and Developer Resources

- help.crestron.com: Provides help files for Crestron programming tools such as SIMPL, SIMPL#, and Crestron Toolbox™ software
- developer.crestron.com: Provides developer documentation for Crestron APIs, SDKs, and other development tools

Product Certificates

To search for product certificates, refer to the Product Certificates section of the Crestron Resource Library.

Related Documentation

- Crestron Technical Documentation

Crestron Electronics, Inc.
15 Volvo Drive, Rockleigh, NJ 07647
Tel: 888.CRESTRON
Fax: 201.767.7656
www.crestron.com

Product Manual — Doc. 9578C
11/06/26
Specifications subject to
change without notice.