AM-3100-WF

AirMedia® Receiver 3100 with Wi-Fi® Network Connectivity



- *Complete room solution enables secure wireless AirMedia® presentation from laptops, smartphones, tablet devices, and AirMedia Connect Adaptors*
- *Enables smart automation via intelligent display control, personal device control, occupancy detection, and integration into a broader connected ecosystem*
- *Enterprise-grade security and content encryption protects privacy and ensures compliance with IT policies*
- *XiO Cloud® service support for remote provisioning and management*
- *Built-in digital signage functionality with support for Appspace® software and other web-based signage providers*
- *Supports simultaneous display of up to four sources with AirMedia Canvas when presenting using the AirMedia Applications, Apple Screen Mirroring or Chrome Extension. Displays up to three sources when presenting using Miracast or Connect Devices (AM-TX3-100 or AM-TX3-200).*
- *Wireless conferencing and presentation allows for collaboration with in-room and remote participants*
- *TAA compliant*

The AirMedia® Receiver 3100-WF(-I) enables secure wireless collaboration in the modern digital workspace. Easy to deploy and manage, install the Receiver in conference rooms, huddle rooms, lounges, lobbies, or almost any space to establish a productive meeting environment. The AirMedia receiver is a fully featured TAA-compliant solution that is suitable for government deployments.

Connect and Present

The AirMedia Series 3 Receiver can be installed beneath, beside, or behind a display to implement a smart room with wireless collaboration. The receiver features AirMedia wireless presentation capability, an HDMI® output that connects to a display (up to 4K), and various USB interfaces for wireless conferencing. Connect your laptop, smart phone, tablet, AirMedia Connect Adaptor, or other source type to instantly present the source image on the display.

AirMedia Wireless Presentation

With AirMedia technology, users can wirelessly present content from laptops, smartphones, and tablet devices via a built in Wi-Fi® network capabilities or via Wi-Fi wireless network. Present content from desktop or laptop computers using , the AirMedia extension for Google Chrome™ browser, or Miracast® screen mirroring technology (Windows 10 and Windows 11 computers only). Present content from Android™ and iOS® mobile devices with the AirMedia app.

For more information about AirMedia, visit www.crestron.com/airmedia.[1]

Multi-Source Presentation

Supports simultaneous display of up to four sources with AirMedia Canvas when presenting using the AirMedia Applications, Apple Screen Mirroring or Chrome Extension. Displays up to three sources when presenting using Miracast or Connect Devices (AM-TX3-100 or AM-TX3-200). To maximize screen coverage, AirMedia Canvas automatically configures the best possible layout based on the number of active presenters, the type of sources, and their aspect ratios. Use the AirMedia app or a connected Crestron touch screen (sold separately) to manage sources and their position on the display.

Wireless Conferencing

Wireless conferencing provides a premium collaboration experience by enabling video calling from almost any device.[2] The AirMedia application provides wireless access to a host of connected conferencing peripherals, such as soundbars, cameras, or speakerphones. When using the AirMedia application, peripherals are immediately available on the user's laptop for use in Microsoft Teams® or Zoom™ software.

Enhanced Onscreen Experience

When no source is connected, the AM-3100-WF displays a customizable welcome screen on the room display with simple instructions for connecting and presenting. Integration with

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Microsoft Exchange Server® (for Outlook® and Microsoft 365® software users), Google Calendar™, or Crestron Fusion® room scheduling software enables the space's availability and meeting details to appear on screen. Throughout the meeting, notifications periodically indicate the remaining time and the next scheduled event. Pop-up messages sent from Crestron Fusion may also appear in the event of an emergency or to deliver an important announcement.

Add-on Control Options

Add a Power over Ethernet occupancy sensor (CEN-ODT-C-POE) to control display or digital signage on/off based on room occupancy or vacancy.

XiO Cloud® Provisioning and Management Service

The AM-3100-WF is compatible with the XiO Cloud service, which enables installers and IT managers to easily deploy and manage thousands of devices. The XiO Cloud service allows for system alerts and network management and provisioning.

For more information, visit www.crestron.com/xiocloud.

Digital Signage Functionality

Integrate the Appspace® digital signage application or other web-based signage providers with the AM-3100-WF. The AM-3100-WF can display digital signage content when no presentation is in progress or the room is unoccupied.

Crestron Fusion® Room Monitoring

Presentation spaces can be managed and centrally monitored through the Crestron Fusion enterprise management service. By adding an optional occupancy sensor (CEN-ODT-C-POE), the AM-3100-WF can detect and log when people are present in the space, automatically turn the display on and off, and make unoccupied spaces available for new bookings. Crestron Fusion software supports room scheduling, and can integrate with a variety of third-party calendaring applications. Instant alerts notify the help desk to rapidly resolve any problems and maximize uptime and workflow.

For more information about Crestron Fusion, visit www.crestron.com/fusion.

Enterprise-Grade Security

The AirMedia Presentation System is an enterprise-grade solution that can be deployed across multiple spaces and set up easily using a web browser or XiO Cloud software. Employing standard network security protocols such as 802.1x network access control, Active Directory® authentication, and AES content encryption, the AM-3100-WF protects privacy and ensures compliance with your organization's IT policies.

Hybrid Wireless Connectivity with the AirMedia Connect Adaptor

As an alternative to software based AirMedia wireless presentation, the AM-3100-WF is compatible with AirMedia Series 3 Connect Adaptors. Simply plug the adaptor into a personal device's USB-C® port to connect to the AM-3100-WF. The adaptor communicates wirelessly with the system using built-in Wi-Fi network capabilities to display content up to a 4K30 resolution. Use the LED-backlit capacitive touch buttons to start, stop, or pause the presentation at any time. Connect up to eight adaptors to a single receiver to maximize the space's collaboration abilities.

Specifications

Communications

Ethernet	100/1000 Mbps, auto-switching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, DHCP, SSL, TLS[3], SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1x, Active Directory authentication, HTTPS web browser setup and XiO Cloud service, 802.3at compliant
Wi-Fi	Dual-band 802.11a/b/g/n/ac/ax (2.4 GHz & 5 GHz); Up to 70 ft (23 m) range at 80 Mbps, subject to site-specific conditions
Bluetooth® Communications	Bluetooth version 5.0
AirMedia	Via Ethernet: IPv4, mDNS, TLS, AES[1]; Via wireless access point: IEEE 802.11/b/g/n/ac/ax, 2.4 GHz or 5 GHz
USB Host	USB 2.0 for connecting a USB conferencing peripheral; USB 3.0 for connecting a USB conferencing peripheral
USB Device	USB 3.0 for computer console (Toolbox setup and firmware update)
HDMI Output	HDCP 2.2, EDID, CEC; Supports management of HDCP and EDID

AirMedia Software[1]

OS Support	Apple® iOS®, Android™, Windows 10, Windows 11, macOS®, Chrome OS™

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Video Frame Rate	Up to 30 fps, audio supported
Output Resolutions	640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz, 1366x768@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60)

NOTE: All video inputs will be scaled to the selected HDMI output resolution.

Bitrate Peak	0.25 to 8.5 Mbps, variable depending on content complexity
Bitrate Average	1.4 Mbps typical

NOTES:

- The bitrate for Apple native mirroring may deviate from above depending on the OS version and content.
- The AirMedia Extension for the Google Chrome browser relies on web technologies for screen sharing that are built-in to the web browser. Performance variations with motion video (quality and frame rate) may occur based upon the encoding capabilities of the Chrome OS device and the nature of the content being displayed (i.e., high-motion video).

Audio Format	Stereo

Wireless Conferencing

OS Support (AirMedia Application)	Windows 10, Windows 11
OS Support (AirMedia Connect Adaptor)	Windows 10, Windows 11, macOS 11 or later
Supported Conferencing Services	Microsoft Teams software; Zoom software
Supported Conferencing Peripherals	For a list of supported conferencing peripherals, refer to OLH Answer ID 1001764.

Video

Input Signal Types	AirMedia; Supports simultaneous display of up to four sources with AirMedia Canvas when presenting using the AirMedia Applications, Apple Screen Mirroring or Chrome Extension. Displays up to three sources when presenting using Miracast or Connect Devices (AM-TX3-100 or AM-TX3-200).
Maximum Input Resolutions	AirMedia presentation: 1920x1080@30Hz (1080p30); AirMedia Connect Adapter: 3840x2160@30Hz (4K30)

NOTE: All video inputs will be scaled to the selected HDMI output resolution.

Output Signal Types	HDMI (DVI compatible[4])
HDMI Output Resolutions	1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz,[5] 1366x768@60Hz,[5] 1440x900@60Hz,[5] 1600x900@60Hz,[5] 1600x1200@60Hz, 1680x1050@60Hz,[5] 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 3840x2160@30Hz (2160p30), 3840x2160@50Hz (2160p50), 3840x2160@60Hz (2160p60)

NOTE: All video inputs will be scaled to the selected HDMI output resolution.

Background & Logo File Support	JPEG, PNG

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Audio

Input Signal Types	AirMedia
Output Signal Type	HDMI
Input/Output Format	2 channel LPCM

NOTE: Audio input signals are passed to the output without any processing. Volume control capability requires a display device with discrete volume, up, down, and mute commands available via CEC, IP, IR, or RS-232.

Connectors

microSD	For caching digital signage content
HDMI OUTPUT	(1) HDMI Type A connector; HDMI digital video/audio output (DVI compatible[4])
USB	(2) USB Type A connectors; USB 2.0 host port for USB conferencing peripheral; USB 3.0 host port for USB conferencing peripheral; (1) USB Type B connector; USB 3.0 device port for computer console
LAN PoE+	(1) 8-pin RJ-45 connector; 100Base-TX/1000Base-T Ethernet port and PoE+ Class 4
24VDC 1.25A	(1) 2.1 x 5.5 mm DC power connector; 24VDC power input; PW-2412WU power pack sold separately

Controls and Indicators

PWR	(1) White LED, indicates operating power supplied via the local power pack or PoE+
RESET	(1) Recessed push button for hardware reset
SETUP	(1) Recessed push button for onscreen IP address display and for pairing the device to an AM-TX3-100; (1) White LED, indicates pairing status
ONLINE	(1) White LED, indicates control system connection
HDMI OUT	(1) White LED, indicates HDMI signal presence at the HDMI output
microSD	(1) microSD slot
LAN PoE+	(2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity

Power

Power over Ethernet	IEEE 802.3at Class 4 Powered Device
Power Pack (sold separately)	Input: 100-240VAC, 50/60 Hz; Output: 1.25A @ 24VDC; Model: PW-2412WU
Power Consumption	13.5 W (typical)

NOTE: When wireless conferencing is used, the receiver must be powered by either Power over Ethernet+ (PoE+) or a power pack (sold separately).

Environmental

Temperature	32° to 104°F (-0° to 40° C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	46.0 BTU/hr

Construction

Chassis	Plastic, black finish, with (4) integrated mounting holes, vented sides
Mounting	Freestanding, surface mount

Dimensions

Height	1.21 in. (31 mm)
Width	5 in. (127 mm)
Depth	5 in. (127 mm)

Weight

11.64 oz (330 g)

Compliance

Regulatory Model: M202018001

Intertek® Listed for US & Canada, CE, IC, FCC Part 15 Class B digital device

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Models

AM-3100-WF
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AM-3100-WF-I
AirMedia® Receiver 3100 with Wi-Fi® Network Connectivity, International

Available Accessories

For a list of available accessories, visit the AM-3100-WF product page.

Notes:

1. Full-motion video performance is dependent upon the performance of the network and the sending device. Computer client software and mobile device apps are available for download at www.crestron.com/airmedia.
2. Crestron supports most mainstream devices and applications. For a list of supported conferencing peripherals, refer to OLH Answer ID 1001764.
3. TLS 1.3 is currently not supported.
4. Using an appropriate adapter or interface cable, the HDMI output can provide a DVI signal. CBL-HD-DVI interface cables are available separately.
5. With or without reduced blanking.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English.
All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

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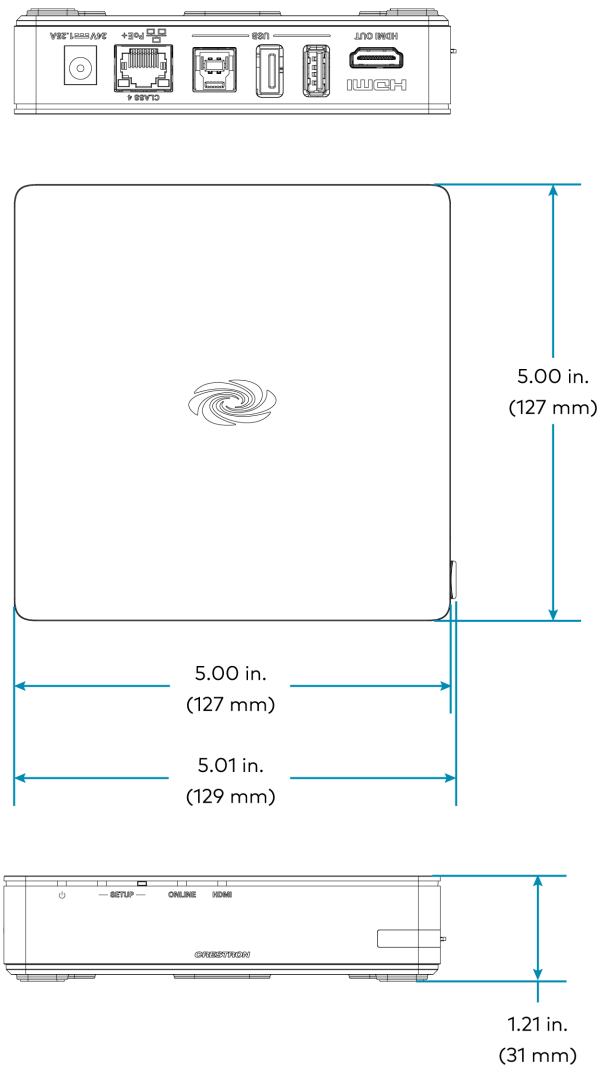
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