

# HTT-B10EX Series

## Wireless Tabletop Keypad

- > Fully-programmable wireless keypad controller
- > Ten backlit engravable tactile pushbuttons
- > Configurable for up to three functions per button
- > White LED feedback indicators
- > Blink patterns and dual bargraph capability
- > Auto-brightness control
- > Movement sensor
- > infiNET EX® wireless communications
- > Crestron Pyng® and 3-Series® compatible
- > Powered by batteries or external power pack
- > Universal 100-240V external power pack included
- > Textured black or white finish with brushed aluminum inlay

Placed on a desktop, bedside table, or other flat surface, the HTT-B10EX affords simple elegance and convenience for any application requiring a small wireless keypad controller. Using the HTT-B10EX, lighting, shading, security, climate, and audio controls are always in reach. Its ten tactile pushbuttons are customizable with backlit engraving, and auto-brightness control maintains clear legibility of the buttons under any lighting condition. Attractive white LED indicators provide true feedback of system settings and status. The HTT-B10EX integrates with a [Crestron® control system](#) or [Crestron Pyng®](#) system using infiNET EX® wireless technology, ensuring reliable control of an entire room, residence, or workplace without any wires.

### Multifunction Pushbuttons

Ten simple pushbuttons enable basic control without clutter or complication. Simply press a button to select a lighting scene, raise the window shades, or mute the music system. More advanced capabilities are available using “Button Events,” allowing different actions to be triggered depending on whether you tap, double-tap, or hold the button. “Shift key” functionality is also possible, allowing extra functions to be accessed by holding one key while tapping another. Whatever the need, the HTT-B10EX can be as simple or go as deep as you want.

### Backlit Button Engraving

Pushbuttons can be ordered with custom engraving, allowing each button to be clearly labeled according to its function. The button engraving is backlit to facilitate use in a darkened room. High quality laser engraving is available from Crestron by ordering the [B10-BTN\(W/B\)-T 5 ENGRAVED](#) option (two are required for all ten buttons).

### True Feedback

Each button is accompanied by a white LED indicator, which may be configured to confirm a button press, indicate the current selected lighting scene, or display the active state of a controlled device. “True feedback” response allows each LED to show you the actual status of your systems and equipment, so you’ll know if a ceiling fan is turned on, if a door is locked, or if the security system is armed. A selection of blink patterns can be assigned to indicate various conditions or to signal an alert. Bargraph capability can be enabled using all five LEDs on either side to indicate the dimming level, shade position, or audio volume as you adjust them.



*Note: When operating on battery power, feedback is only displayed when woken from sleep mode by pressing a button or moving the keypad. After 5 seconds of inactivity, the keypad enters a power conserving mode where feedback from the control system is delayed by up to 3 seconds. After 10 seconds of inactivity, the keypad enters sleep mode where no feedback is displayed.*

### Auto-Brightness Control

To ensure optimal visibility under varying lighting conditions, the button backlighting and indicator intensity adjusts automatically according to the amount of ambient light in the room. Day or night, in bright sunlight or complete darkness, you’ll always be able to find the button you need. In a bedroom or other space where constant illumination may be distracting, the HTT-B10EX can be placed in “Manner mode,” which extinguishes the backlight and indicators after a configurable period of time following the last button press.

### infiNET EX® Wireless Technology

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure using a robust 2.4 GHz mesh network topology. A single infiNET EX wireless gateway enables communication with the control system and supports an entire network of wireless keypads, lighting dimmers, motorized shades, thermostats, door locks, sensors, and other infiNET EX devices.<sup>[1,2]</sup>

### Power Options

The HTT-B10EX can be powered by its external power pack or two AA batteries. The power pack plugs into a wall outlet and allows the keypad to operate continuously and function as a full-featured mesh network routing node.<sup>[1]</sup> When using batteries, the HTT-B10EX enters Sleep mode when not in use to conserve battery power, affording up to eight months of operation under typical usage on a set of alkaline batteries. To ensure you are never faced with dead batteries, the control system can be configured to send a low-battery warning to your mobile phone or computer, a Crestron touch screen, or a central help desk, allowing the batteries to be replaced before they ever have a chance to fail.

# HTT-B10EX Series Wireless Tabletop Keypad

## Movement Sensor

To ensure maximum responsiveness, the HTT-B10EX wakes instantly from Sleep mode or Manner mode when a button is pressed or when any movement or vibration is detected.

## SPECIFICATIONS

### Buttons & Indicators

**Keypad Buttons:** (10) Pushbuttons arranged in (2) columns of (5) buttons, all buttons are blank (no engraving), replacement buttons are available separately (with or without custom backlit laser-etched engraving); each button is programmable for any system function and supports tap, double-tap, and press-and-hold button events

**Button Backlighting:** White LED backlighting illuminates behind the button engraving with manual or automatic brightness adjustment

**Feedback Indicators:** (10) White LEDs (one per button) with manual or automatic brightness adjustment, programmable for any system function with ten assignable blink patterns and dual 5-segment bargraph capability

### Light Sensor

Photosensor detects the ambient light level to enable auto-brightness control, also reports ambient light level to the control system

### Movement Sensor

Vibration sensor detects if the device is touched or moved and wakes it from sleep mode or manner mode

### Wireless Communications

**RF Transceiver:** infiNET EX 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant, AES-128 encryption

**Range (typical):** 50 ft (15 m) to gateway or nearest mesh network device(s), subject to site-specific conditions and individual device capabilities, range between floors or ceilings is limited to one level<sup>[1]</sup>

**Gateway:** Requires an infiNET EX gateway or Crestron Pyng control hub<sup>[2]</sup>

### Connectors

**Power:** (1) 2.5 x 5.5 mm DC power connector; 12 Volt DC power input (power pack included)

### Power Options

**Battery:** (2) Disposable 1.5V AA alkaline batteries (included), estimated 8 months usage under normal operation

**Power Pack:** Input: <0.3 Amps @ 100-240 Volts AC, 50/60 Hz;  
Output: 0.5 Amps @ 12 Volts DC;  
Model: [PW-1205RU](#) (included)

### Environmental

**Temperature:** 32° to 104° F (0° to 40° C)

**Humidity:** 10% to 90% RH (non-condensing)

**Heat Dissipation:** 3.4 BTU/hr

## Construction

Plastic, black or white textured finish, brushed aluminum inlay, rubber feet

## Dimensions

**Height:** 1.46 in (38 mm)

**Width:** 3.60 in (92 mm)

**Depth:** 4.69 in (120 mm)

## Weight

5.0 oz (143 g) without batteries;

~6.8 oz (~192 g) with batteries

## Compliance

CE, IC, FCC Part 15 Class B digital device

## MODELS & ACCESSORIES

### Available Models

**HTT-B10EX-B-T:** Wireless Tabletop Keypad, Black Textured

**HTT-B10EX-W-T:** Wireless Tabletop Keypad, White Textured

### Included Accessories

**PW-1205RU:** Wall Mount Power Pack, 12VDC, 0.5A, 2.5mm, Universal (Qty. 1 included)

### Available Accessories

**B10-BTNB-T 5 ENGRAVED:** Set of 5 Backlit Engravable Buttons for HTT-B10EX Series, Includes Custom Engraving, Black Textured

**B10-BTNW-T 5 ENGRAVED:** Set of 5 Backlit Engravable Buttons for HTT-B10EX Series, Includes Custom Engraving, White Textured



White model shown

# HTT-B10EX Series Wireless Tabletop Keypad

**B10-BTNB-T 5 BLANK:** Set of 5 Backlit Engravable Buttons for HTT-B10EX Series, Engraving Not Included, Black Textured

**B10-BTNW-T 5 BLANK:** Set of 5 Backlit Engravable Buttons for HTT-B10EX Series, Engraving Not Included, White Textured

**CEN-GWEXER:** infiNET EX® & ER Wireless Gateway

**CENI-GWEXER:** infiNET EX® & ER Wireless Gateway – International Version

**MC3:** 3-Series Control System® w/infiNET EX® & ER Wireless Gateway

**DIN-AP3MEX:** DIN Rail 3-Series® Automation Processor w/infiNET EX® & ER Wireless Gateway

**CLW-EXPEX-GD-W-T:** infiNET EX® Wireless Expander

sold separately) may be deployed as supplemental routing nodes to fill any gaps in coverage. Up to 100 infiNET EX devices are permitted per gateway, although best practices suggest a limit of 50. Refer to the "[Installation and Setup of Crestron RF Products, Best Practices](#)" guide (Doc #6689) for additional guidelines.

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- The infiNET EX wireless gateway (model [CEN-GWEXER](#), [CENI-GWEXER](#), [DIN-AP3MEX](#), [MC3](#), or [PYNG-HUB](#)) is sold separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover this and other Crestron products are listed online at <https://www.crestron.com/legal/patents>.

Certain Crestron products contain open source software. For specific information, please visit <https://www.crestron.com/opensource>.

## Notes:

1. Crestron infiNET EX wireless technology employs a mesh network topology so each "EX" device on the network acts as a routing node, which propagates the signals it receives on to other EX devices within range. This effectively extends the total range of the network and provides multiple redundant signal paths for extra reliability. A maximum of six "hops" across routing nodes is allowed, although a maximum of three is recommended. When powered using the included power pack, the HTT-B10EX behaves as a routing node. When powered using batteries, the HTT-B10EX behaves as a leaf node, and thus does not propagate signals or extend range. If needed, up to five dedicated infiNET EX expanders (model [CLW-EXPEX-GD-W-T](#),

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