

# HTT-B2EX-BATT

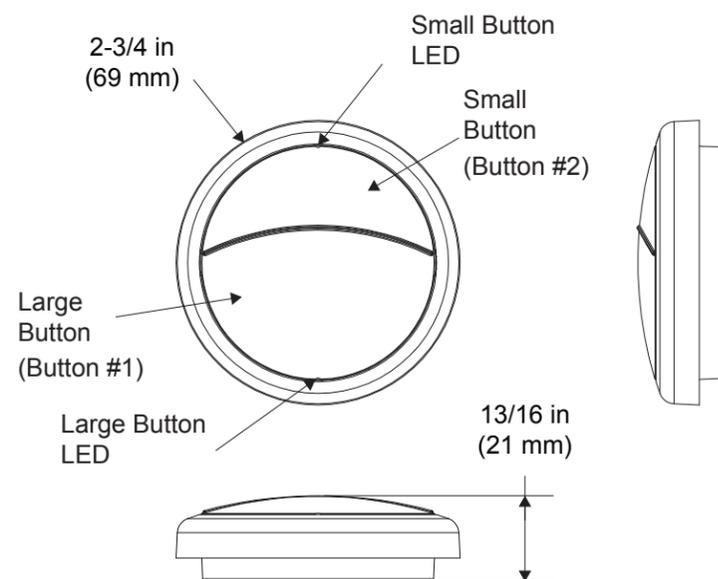
## Battery-Powered infiNET EX® 2-Button Wireless Keypad

### 1 Description

The HTT-B2EX-BATT is a battery-powered, 2-button wireless keypad designed to control a wide range of applications supported by a Crestron® control system. Compact and simplistic in design, the HTT-B2EX-BATT is an ideal tabletop keypad for use as a hotel bedside controller, a conference room presentation selector, or a simple living room lighting and shade controller. The HTT-B2EX-BATT is powered by lithium coin cell batteries that boast high performance and a long battery life. Outfitted with Crestron infiNET EX® technology, the HTT-B2EX-BATT can be wirelessly connected to a Crestron control system. The HTT-B2EX-BATT is available with or without custom engravings and is available with an optional tether that allows the device to be secured at its mounting location.

#### infiNET EX Communication

Ultrareliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. The HTT-B2EX-BATT works with other infiNET EX devices to communicate with a Crestron control system via an infiNET EX Wireless Gateway (sold separately). Up to 100 infiNET EX devices may coexist on a single infiNET EX network.



### 2 Installation

Install the HTT-B2EX-BATT by powering the device, placing it on a flat surface, and securing it to the line cord of a lamp (optional).

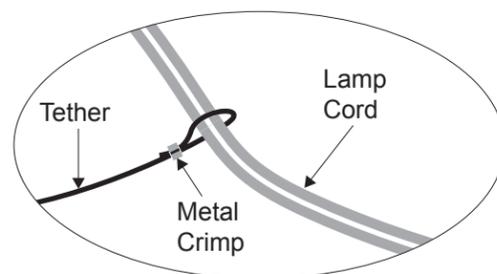
#### Power Device

The HTT-B2EX-BATT is shipped with the batteries installed. To power the device, pull and remove the plastic tab on the side of the device. Once the plastic tab is removed, the device is powered and ready to be operated. Properly discard the plastic tab.

#### Secure Device (Optional)

A security tether is available on the HTT-B2EX-BATT-B-T W/TETHER, HTT-B2EX-BATT-W-T W/TETHER, HTT-B2EX-BATT-B-T\_W/TETHER\_ENGRAVED, and HTT-B2EX-BATT-W-T\_W/TETHER\_ENGRAVED models. The tether is secured inside the cover of the keypad and attaches to a lamp cord. Use the following procedure to secure the loose end of the tether to a lamp cord.

1. Wrap the loose end of the tether around the lamp cord. The loop should be loose enough to allow the tether to slide along the lamp cord but not loose enough to allow the tether to slide over the plug.
2. Use the supplied metal crimp and pliers to secure the tether to the lamp cord.
3. Neatly trim the excess wire from the tether using wire cutters.



### 3 Wireless Communications

The device connects to the Crestron network via the infiNET EX communications protocol. Use the following procedures to join or leave an infiNET EX network and to verify communications between the device and the control system.

#### Joining an infiNET EX Network

Before a device can be used in a lighting system, it must first join an infiNET EX network.

**NOTE:** A device can be acquired by only one gateway.

1. Put the infiNET EX gateway into Acquire mode from the unit itself or from Crestron Toolbox™. Refer to the gateway's manual at [www.crestron.com/manuals](http://www.crestron.com/manuals).

**NOTE:** In an environment where multiple gateways are installed, only one gateway should be in Acquire mode at any time.

2. Put the device in Acquire mode by doing the following:
  - a. Tap the large button three times, and then press and hold it down (tap-tap-tap-press+hold) until the large button LED on the device blinks once (this can take up to 10 seconds).
  - b. Release the button to start the acquire process. The large button LED blinks slowly to show that the device is actively scanning the infiNET EX network.
    - The large button LED turns on for 5 seconds to show that the device has been successfully acquired.
    - The large button LED blinks 10 times to indicate that the device was not successfully acquired to the infiNET EX network. Ensure that the gateway is in Acquire mode and within range before attempting the acquire process again.

#### Leaving an infiNET EX Network

To leave an infiNET EX network, put the device into Acquire mode, as described in "Joining an infiNET EX Network," when no gateway is in Acquire mode.

#### Verifying Communications Status

To check the communication status of the device, tap the large button three times, and then press and hold it down (tap-tap-tap-press+hold) for up to 2 seconds. The large button LED indicates the communication status. Refer to the table for details.

LED	COMMUNICATIONS STATUS
Turns on for 5 seconds	Device is communicating with a gateway and control system.
Blinks twice	Device is acquired but not communicating with a gateway.
Blinks once	Device is not acquired to a gateway.

**NOTE:** Wireless networks composed predominantly of battery-powered devices may need additional infiNET EX expanders, such as the CLW-EXPEX or GLA-EXPEX (sold separately), or other nonbattery powered infiNET EX devices, to ensure proper functionality of the network and battery life for the devices. Refer to the Best Practices for Installation and Setup of Crestron RF Products (Doc. 6689) at [www.crestron.com/manuals](http://www.crestron.com/manuals) for complete system design guidelines, or contact Crestron True Blue Support for assistance.

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### 4 RF ID

It is recommended to have direct access to the HTT-B2EX-BATT and to use Crestron Toolbox to set the RF ID of the device. Set the RF ID for the HTT-B2EX-BATT by following these steps:

1. Wake the device by pressing the large or small button on the HTT-B2EX-BATT.
2. Set the RF ID of the device using Crestron Toolbox. The RF ID must match the RF ID specified in the Crestron Studio™ or SIMPL Windows program.
3. Press the large or small button on the HTT-B2EX-BATT four times (tap-tap-tap-tap) to ensure that the device is awake and the RF ID is transferred to the device.

### 5 Firmware

**NOTE:** Before using the HTT-B2EX-BATT, ensure that the device is using the latest firmware. Check for the latest firmware for the HTT-B2EX-BATT at [www.crestron.com/firmware](http://www.crestron.com/firmware). Firmware is loaded onto the device using Crestron Toolbox.

To upgrade the firmware on the HTT-B2EX-BATT, follow the procedure below using Crestron Toolbox (v. 2.36.216 or later):

1. Select **Tools | Network Device Tree View**.
2. Right-click the gateway in the **Network Device Tree View** window.
3. Select **Functions | Firmware Upload (Deep Sleep)**.
4. Click the **Load Firmware File** button in the **Firmware Upload (Deep Sleep)** window and browse for the firmware in the **Open** window.
5. Once the firmware is selected, click **Open** to add the firmware to **Firmware Images**.
6. In the **Assignments** section, click the device (**CTRL** + click or **SHIFT** + click for multiple devices) that the firmware should be assigned to. The row turns light gray.

**NOTE:** If a device is not located in the **Assignments** section, click **Show all Available IDs**.

**NOTE:** If a deep sleep device has not been acquired by the gateway, assign the firmware to an ID if the future ID number of the device is known.

7. In the **Firmware Images** section, click the firmware that should be assigned to the device(s). The row turns light gray.
8. Once the device(s) and firmware are selected, click **Assign Selected Image to Selected Target(s)** to assign the firmware to the device(s). The firmware is stored on the gateway and assigned to the device(s).
9. Select a method to initiate the firmware upgrade on the device:
  - Allow the HTT-B2EX-BATT to automatically initiate the firmware upgrade, which occurs every 8 hours.
  - To manually initiate the firmware upgrade, press the large or small button on the HTT-B2EX-BATT four times (tap-tap-tap-tap).

### 6 Replace Batteries



**WARNING:** Refer to the following warnings before changing the batteries.

- Do not ingest batteries: chemical burn hazard.
- This product contains coin cell batteries. If a coin cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries have been swallowed or placed inside any part of the body, seek immediate medical attention.



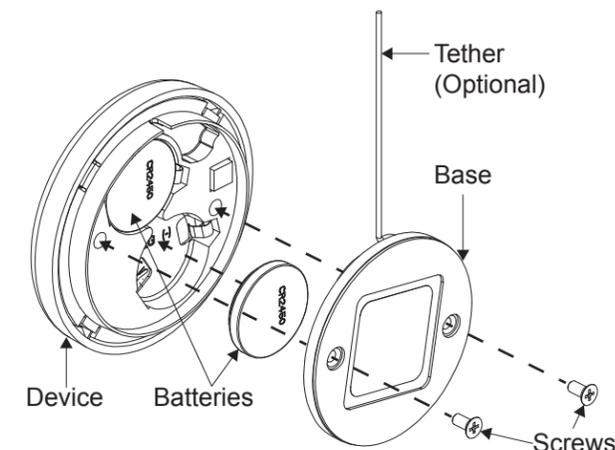
**CAUTION:** The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not recharge, disassemble, heat above 212°F (100°C), or incinerate. Replace batteries with Panasonic® CR2450 only. Use of another battery may present a risk of fire or explosion.

Follow the instructions below to replace the batteries in the HTT-B2EX-BATT:

1. Using a Phillips head screwdriver, remove the two screws that secure the base to the bottom of the device.
2. Gently separate the base from the device.

3. Remove the two batteries from the HTT-B2EX-BATT, and replace with two new Panasonic CR2450 batteries.
4. Reassemble the HTT-B2EX-BATT, and place it in its original location.

**NOTE:** Dispose of the used batteries promptly. Keep the batteries away from children. Do not disassemble the batteries, and do not dispose of them in fire.



The product warranty can be found at [www.crestron.com/warranty](http://www.crestron.com/warranty).

The specific patents that cover Crestron products are listed at [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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