

TPMC-3X Series

Isys® 2.8" Handheld WiFi Touch Screens

1 Power

To charge its internal battery pack, the TPMC-3X Series touch screen must be placed on the included docking station/charger. Connect the included power pack to the docking station/charger.

NOTE: Before using the TPMC-3X Series touch screen for the first time, charge its internal battery pack for at least two hours by placing it on the included docking station/charger.

It takes the TPMC-3X Series touch screen about 2 hours to recharge while in use. A fully charged battery can provide up to 5 hours of use at the full screen brightness setting.

NOTE: When not using the TPMC-3X Series touch screen, store the unit on its docking station/charger.

NOTE: The TPMC-3X Series touch screen can become unresponsive when battery strength is low.

2 Configure the Touch Screen

The setup screen is the starting point for configuring a TPMC-3X Series touch screen. When power is applied for the first time, the following screen appears.

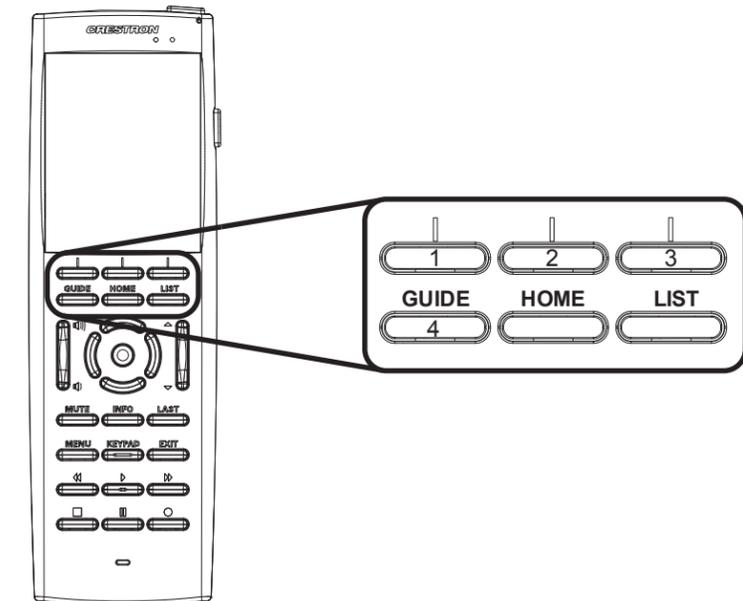


Touch the screen to display the TPMC-3X Series setup screen, as shown in the illustration to the right. The setup screen enables basic configuration procedures prior to regular operation of the touch screen.



NOTE: During regular operation of the touch screen, there are three ways to activate the setup functions:

1. Place a button on the project main page and assign the reserved join number (17242) that activates setup.
2. Press hard keys 1, 2, 3, and 4 in sequence twice (i.e. press 1, 2, 3, 4, 1, 2, 3, 4) within a 5 second period.
3. If the system bar is visible at the top of the display, access the setup screen by touching the Crestron swirl logo in the upper left corner.

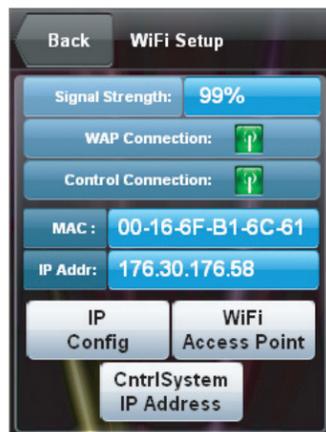


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3 Basic Wireless Setup

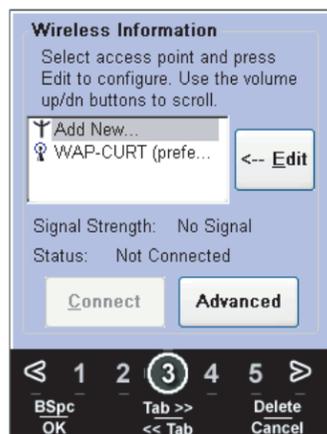
From the setup menu, touch **WiFi Setup** to display the "WiFi Setup" screen shown below.



NOTE: It may take 5-10 seconds for the IP address to show once the *WAP Connection* indicator has turned green.

From the "WiFi Setup" screen, touch **WiFi Access Point** to display the "Wireless Information" screen, which allows setting up the parameters used to communicate with the control system via a wireless access point (WAP). Crestron® recommends using a CEN-WAP-ABG-1G or CEN-WAP-ABG-CM (both sold separately) as the wireless access point for the TPMC-3X Series touch screen.

A list of available access points is shown. Use the volume up/down buttons to scroll through the list. Select the access point and touch **Edit** to configure. With DHCP enabled, simply enter the *Network* key.



In the screens opened by the **WiFi Access Point**, **CntlSystem IP Address** and **IP Config** buttons, a keyboard application is displayed at the bottom. The keyboard uses the navigation pad (up, down, left and right) to select a character to type. The center button on the navigation pad types the selected character.



There are different characters in each row. Move between rows using the up/down buttons and move within a row using the left/right buttons.

There are a few "shortcut" keys: The top six hard keys are mapped according to the legend at the bottom of the screen (*BSpC*, *Tab>>*, *Delete*, *OK*, *<<Tab* and *Cancel*).

The volume up/down and ▲/▼ keys on either side of the navigation pad also have some shortcuts to help navigate around text and list boxes. The volume up/down buttons act as the up and down arrow keys (use to select items in a list box). The ▲ and ▼ buttons can be used to move the cursor within a text string.

From the "WiFi Setup" screen, touch **CntlSystem IP Address** to display the "Control System Information" screen, which has controls to *Enable Autodiscovery* and *Use Hostname Lookup* as well as enter the *IP Address*, *Port* and *IP ID*.

On any of these screens, touch the appropriate hard key for *Tab>>* or *<<Tab* to navigate editable fields. Touch the appropriate hard key for *OK* to save settings or for *Cancel* to exit without saving.



NOTE: Make the control system connection after exiting setup.

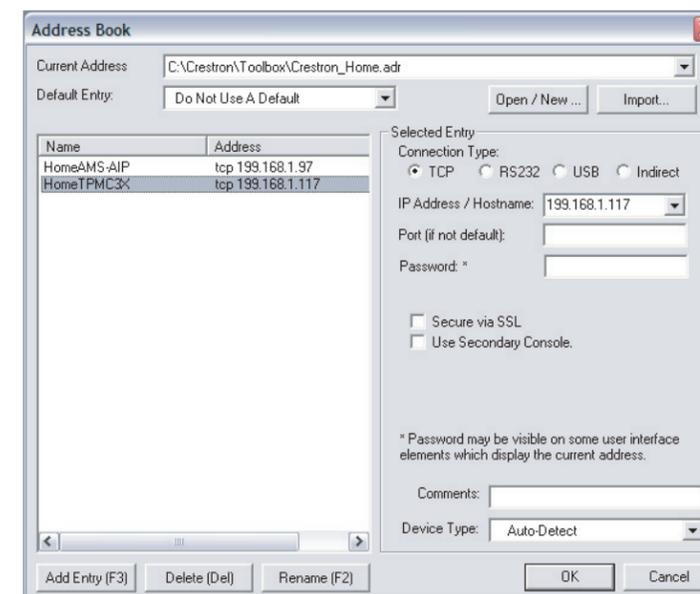
4 Establish Communication

Use Crestron Toolbox™ for communicating with the TPMC-3X Series touch screen; refer to the Crestron Toolbox help file for details.



The TPMC-3X Series touch screen connects to PC via Wi-Fi:

1. Establish wireless communication between TPMC-3X Series touch screen and PC via the CEN-WAP-ABG-1G or CEN-WAP-ABG-CM. The TPMC-3X Series touch screen has DHCP enabled by default.
2. Confirm Ethernet connection between TPMC-3X Series touch screen and PC by using the pencil tool in Crestron Toolbox (**Alt + D**), clicking *TCP*, entering the IP address (shown on the TPMC-3X Series touch screen's main "Wi-Fi Setup" screen), then clicking **OK**.
3. Use the Address Book in Crestron Toolbox to create an entry for the TPMC-3X Series touch screen with the touch screen's TCP/IP communication parameters.
4. Display the "System Info" window (click the **i** icon) and select the TPMC-3X Series touch screen entry.

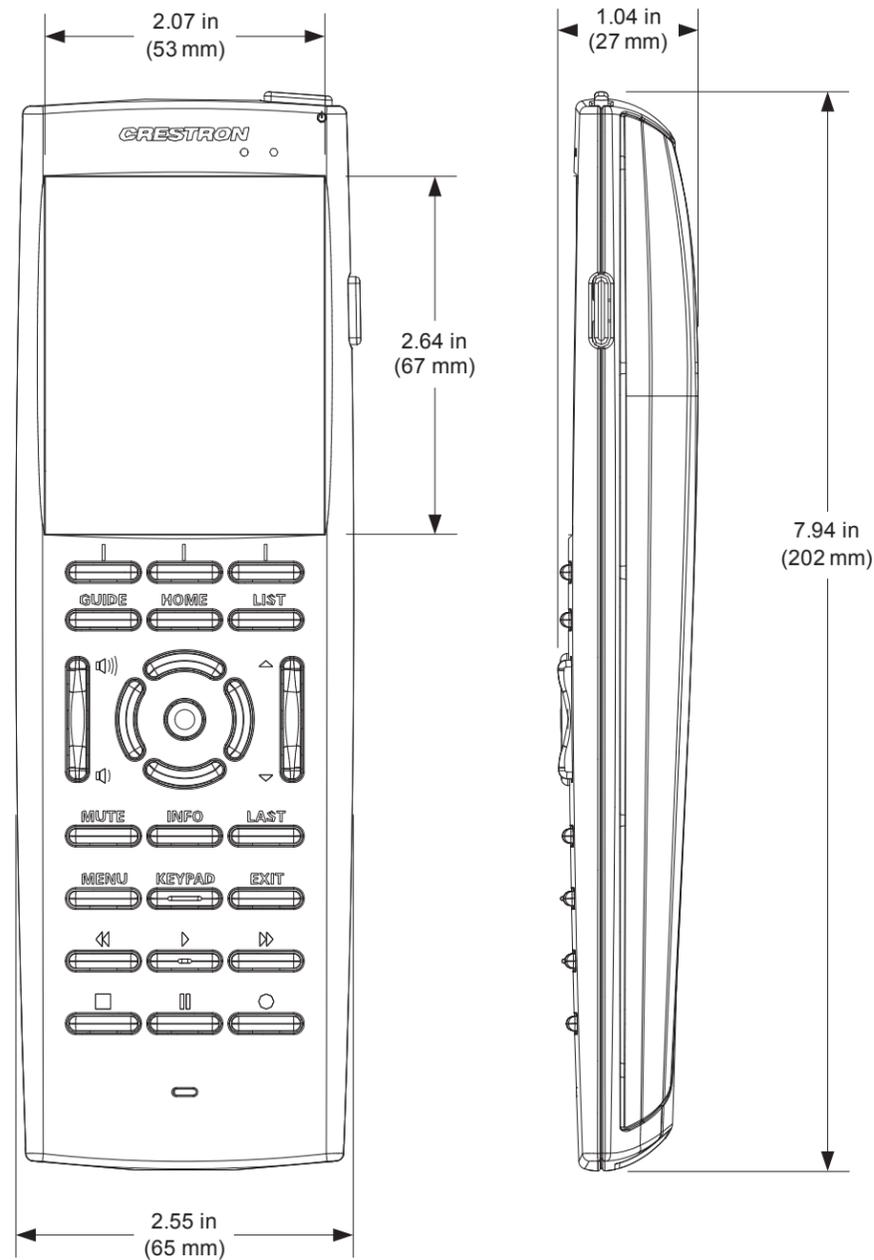


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5 Dimensions

TPMC-3X Series Overall Dimensions (Front and Side Views)



6 Recommended Cleaning

Keep the surface of the touch screen free of dirt, dust or other materials that could degrade optical properties. Long-term contact with abrasive materials can scratch the surface, which may detrimentally affect image quality.

For best cleaning results, use a clean, damp, non-abrasive cloth with any commercially available non-ammonia glass cleaner. Bezels may not provide a complete watertight seal. Therefore, apply cleaning solution to the cloth rather than the surface of the touch screen. Wipe touch screen clean and avoid getting moisture beneath the bezels.

7 Specifications

Touch Screen Display

Display Type: TFT active matrix color LCD
Size: 2.8 inch (72 mm) diagonal
Aspect Ratio: 3:4 QVGA (portrait orientation)
Resolution: 240 x 320 pixels
Brightness: 350 nits (cd/m²) typical
Contrast: 500:1 typical
Color Depth: 16-bit, 64k colors
Viewing Angle: ±75° horizontal, +75/-55° vertical
Illumination: LED Backlit
Touch Screen: Resistive membrane

Buttons & Indicators

Power (top): (1) programmable push button, performs hardware reset if held for >10 seconds
Hard Keys: (3) programmable push buttons below touch screen
Functions: (15) programmable push buttons with white EL backlit labeling for GUIDE, HOME, LIST, MUTE, INFO, LAST, MENU, KEYPAD, EXIT, and icons for Rewind, Play, Forward, Stop, Pause, Record
Volume: (1) programmable rocker button with white EL backlit Volume 'Raise' and 'Lower' icons
Navigation Pad: (5) programmable push buttons comprising a 5-way thumbpad (4-way navigation plus "enter")
Up/Down: (1) programmable rocker button with white EL backlit 'Up' and 'Down' arrows
More (right side): (1) programmable thumb-operated side button
Charge: (1) Green LED, indicates charging status when docked

Memory

SDRAM: 128 MB
Flash: 256 MB
Maximum Project Size: 24 MB

(Continued on following page)

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7 Specifications (Continued)

Graphics Engine

16-bit non-palette graphics; 65,536 colors; multi-mode objects; dynamic graphics and text; PNG translucency; full-motion (60 fps) animation; subpage transition effects

Wireless Communication

Transceiver: IEEE 802.11a/b/g Wi-Fi (5.8 or 2.4 GHz 2-way RF), static IP or dynamic IP via DHCP, 64 and 128-bit WEP encryption, WPA & WPA2-PSK with TKIP & AES

Range: Up to 50 feet (15 meters), subject to environmental conditions

Gateway: Requires a CEN-WAP-ABG or similar 802.11a/b/g wireless access point and Ethernet-enabled Crestron control system (all sold separately)

Roaming: Requires a Cisco® controller solution to be installed and commissioned by a Cisco certified technician.

Video

Streaming Formats: MJPEG

Audio

Features: Built-in speaker and microphone, Crestron IP Intercom

Audio Feedback: WAV format, 8 & 16-bit PCM, 8 – 44.1 kHz sampling rates, mono & stereo

Tilt Sensor

Wakes touch screen within 0.5 second when unit's physical orientation is moved from horizontal to vertical

Connectors

USB (bottom): (1) Mini Type AB female behind battery cover
USB computer console port, for installer use only

Battery

Battery Type: Lithium Polymer, 3.7 Volt, 1000 mAh, model TPMC-3X-BTP included

Usage per Charge: 5 hours continuous at full brightness

Charging Time: 2 hours

Cycle Life: >300 cycles (80% capacity)

Power Requirements*

TPMC-3X

Power Pack: 1.5 Amps @ 12 Volts DC

0.6 Amp @ 100-240 Volts AC, 50/60 Hz power pack included.

TPMC-3X-LP

Power Pack: 1.2 Amps @ 5 Volts DC

100-240 Volts AC, 50/60 Hz power pack included.

Environmental

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

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

Heat Dissipation: 20 BTU/Hr

Enclosure

Construction: Injection-molded plastic, integral docking station port

Dimensions

TPMC-3X

Height: 1.04 in (27 mm), 6.34 in (161 mm) docked

Width: 2.55 in (65 mm), 4.58 in (117 mm) docked

Depth: 7.94 in (202 mm), 6.30 in (160 mm) docked

TPMC-3X-LP

Height: 1.04 in (27 mm), 2.22 in (57 mm) docked

Width: 2.55 in (65 mm), 2.99 in (76 mm) docked

Depth: 7.94 in (202 mm), 7.84 in (199 mm) docked

Weight

7 oz (185 g) including battery

NOTES

* Power connection made via the docking station/charger:

- The TPMC-3X includes (1) TPMC-3X-DS TableTop Docking Station. The TPMC-3X-DSW Wall Mount Docking Station is sold separately. Refer to each individual product spec sheet for additional details. The TPMC-3X is not compatible with the MTX-3-DS docking station.
- The TPMC-3X-LP includes (1) MTX-3-DS Low-Profile TableTop Docking Station. Refer to the MTX-3-DS spec sheet for additional details. The TPMC-3X-LP is not compatible with the TPMC-3X-DS or TPMC-3X-DSW docking stations.

The specific patents that cover Crestron products are listed at patents.crestron.com.

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