

## 9" Wall Mount Touch Screen

- > Stylish flush-mount design for in-wall and lectern installation
- > Generous 9" widescreen color touch screen
- > 800 x 480 WVGA display resolution
- > Automatic brightness control
- > Smart Graphics™ support
- > H.264 streaming video
- > Wired composite video input
- > Rava™ SIP Intercom and phone technology
- > Customizable audio feedback
- > Built-in microphone and speakers
- > Crestron Home® CAT5 video connectivity
- > High-speed Ethernet and Cresnet® communications
- > Built-in USB port for direct program upload
- > Includes faceplate with 12 "hard key" pushbuttons
- > Custom button engraving available as solid or backlit text
- > No-button blank faceplate also provided
- > Wall, lectern, and rack mounting options
- > Available with almond, black, or white textured finish

The TPMC-9L Wall Mount Touch Screen from Crestron® delivers high-end style and performance in a compact, cost-effective flush mount design. Featuring a generous 9" widescreen display, advanced touch screen graphics, H.264 video, audio feedback, and [Rava™ SIP Intercom](#), the TPMC-9L delivers a world of control capability yet leaves a very small footprint. The addition of 12 optional pushbuttons provides quick access to commonly used functions.

### Advanced Touch Screen Control

A Crestron touch screen offers an ideal user-interface for controlling all the technology in your home, boardroom, classroom, courtroom, or command center. Touch screens do away with piles of remote controls, cluttered wall switches, and cryptic computer screens, simplifying and enhancing the way you use technology. For controlling audio, video, lighting, shades, HVAC, security, and other systems, Crestron touch screens are fully-customizable with easy-to-use controls and icons, true feedback and real-time status display, full-motion video windows, and advanced navigation of digital media servers, tuners, and other devices.

### Smart Graphics™

Crestron touch screens use Smart Graphics to deliver the ultimate user experience *and* the ultimate value by enabling the creation of dynamically rich user interfaces with incredible efficiency and unparalleled functionality. Using Smart Graphics, programmers can swiftly integrate fluid gesture-driven controls, animated feedback, metadata, embedded apps, and full-motion video for a deeply engaging and ultra-intuitive touch screen experience.



Crestron Smart Graphics include the following enhancements:

- Cool-looking graphical buttons, sliders, knobs, and gauges are intuitive and fun to use.
- Kinetic effects enhance the feeling of realism with lists and toolbars that scroll with momentum at the flick of a fingertip.
- Drag-and-drop objects snap into place offering an easy way to switch sources.
- Dashboard widgets personalize the touch screen with clocks, weather, news, and other information.
- Customizable themes allow a completely different look and feel for every user, event, or season.
- Fully-developed SmartObjects™ enable sophisticated control over complex devices with minimal programming.

### Integrated Video

Streaming video capability makes it possible to view security cameras and other video sources right on the touch screen. Native support for H.264 and MJPEG formats allows the TPMC-9L to display live streaming video from an IP camera, a streaming server (Crestron [CEN-NVS200](#)<sup>(1)</sup> or similar), a [DigitalMedia™](#) switcher, or a [Capture HD®](#) system. Streaming video is delivered to the touch screen over Ethernet, eliminating the need for any extra video wiring. A wired video input is also provided to allow viewing of a composite video source. Video images can be displayed full frame or in fully-scalable windows anywhere on the touch screen.

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## Rava™ SIP Intercom

Rava SIP Intercom Technology enables hands-free VoIP communication between any two Rava-enabled Crestron touch screens. Rava works over Ethernet, supporting 2-way intercom, video intercom<sup>[2]</sup>, and paging without any special wiring. VoIP phone capability is also possible through integration with an SIP-compatible IP phone system or SIP server, allowing hands-free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. Built-in echo cancellation affords true-duplex performance for clear, seamless voice communication using the TPMC-9L's integrated microphone and speakers.

## Audio Feedback

Customized audio files can be loaded on the TPMC-9L to add another dimension to the touch screen graphics using personalized sounds, button feedback, and voice prompts.

## Pushbutton Options

The TPMC-9L features a faceplate containing 12 programmable "hard key" pushbuttons, elegantly trimmed by illuminated button dividers. Integral to the faceplate, the pushbuttons are positioned along the left and right edges of the touch screen, making it possible to align them with text and graphics on screen. Custom engraving of the buttons is available with a choice of solid or backlit text. A plain no-button faceplate is also included allowing a very clean appearance with no pushbuttons.

## Auto-Brightness Control

The TPMC-9L maintains optimal visibility under varying lighting conditions, adjusting its button backlighting and display brightness smoothly and automatically according to changes in the ambient light level in the room.

## High-Speed Connectivity

Both Cresnet® and high-speed Ethernet are standard on the TPMC-9L, providing for easy network integration and seamless communications with Crestron control systems and other network devices.

## Versatile Flush-Mount Design

The TPMC-9L is designed for easy flush-mount installation in a wall, lectern or similar flat surface. Mounting clips furnished with the TPMC-9L facilitate a clean installation in drywall and many furniture applications. Additional mounting options are available separately.

## SPECIFICATIONS

### Touch Screen Display

**Display Type:** TFT Active matrix color LCD  
**Size:** 9 inch (229 mm) diagonal  
**Aspect Ratio:** 15:9 WVGA  
**Resolution:** 800 x 480 pixels  
**Brightness:** 350 nits (cd/m<sup>2</sup>)  
**Contrast:** 700:1  
**Color Depth:** 24-bit, 16.7M colors  
**Illumination:** Edgelit fluorescent w/auto-brightness control  
**Viewing Angle:** ±88° horizontal, ±88° vertical  
**Touch Screen:** Resistive membrane



**TPMC-9LW-T**  
with Engravable Button Faceplate  
(custom engraving sold separately)

### Buttons

**Hard Keys:** (12) Optional engravable pushbuttons, optional auto-dimmable backlighting

**Reset:** (1) Miniature pushbutton for hardware reset, behind faceplate

### Memory

**DDR RAM:** 256 MB

**Flash:** 2 GB

**Maximum Project Size:** 60 MB

### Graphics Engine

Supports Smart Graphics™ or "traditional" GUI projects

### Communications

**Ethernet:** 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, for control and console

**Cresnet®:** Cresnet slave mode for control and console

**USB:** USB client for console

### Video

**Analog Input Signal Types:** Composite

**Analog Formats:** NTSC 480i or PAL 576i

**Analog Color Depth:** 24-bit, 16.7M colors

**Streaming Formats:** H.264 (MPEG-4 part 10 AVC) (320x240/15fps @ 192kbps recommended), MJPEG (320x240/10fps recommended)

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## Audio

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**Features:** Built-in microphone and speakers, Rava™ SIP Intercom, Crestron IP Intercom

**Audio Feedback Formats:** MP3 using Smart Graphics, WAV using "traditional" graphics

## Connectors

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**VIDEO, BAL:** (1) 3-pin 3.5mm detachable terminal block; Balanced composite video input; Input Impedance: 100 Ohms nominal; Input Level: 1 Vp-p nominal, 1.5 Vp-p maximum; Maximum DC Offset: ±2 Volts; Connects to any Crestron CAT5 Video Out port via CresCAT® or CAT5 cable

**VIDEO, UNBL:** (1) 2-pin 3.5mm detachable terminal block; Unbalanced composite video input; Input Impedance: 75 Ohms nominal; Input Level: 1 Vp-p nominal, 1.5 Vp-p maximum; Maximum DC Offset: ±2 Volts; Connects to any conventional coax video source; Note: Balanced and unbalanced video inputs are mutually exclusive

**NET:** (1) 4-pin 3.5mm detachable terminal block; Cresnet slave port, connects to Cresnet control network

**LAN:** (1) 8-wire RJ45, 10/100Base-T Ethernet port

**USB:** Mini-B USB console port (behind faceplate); Mini-B to A USB cable included

## Power Requirements

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**Cresnet Power Usage:** 23 Watts (0.96 Amps @ 24 Volts DC)

## Environmental

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**Temperature:** 32° to 112°F (0° to 45°C)  
**Humidity:** 10% to 90% RH (non-condensing)  
**Heat Dissipation:** 78 BTU/hr

## Enclosure

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**Construction:** Plastic, flush-mountable using (4) clips provided (additional mounting kits available)

**Faceplate:** Plastic, button and no-button faceplates included, optional solid or backlit button engraving sold separately

## Dimensions

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**Height:** 7.52 in (191 mm)  
**Width:** 10.83 in (275 mm)  
**Depth:** 1.86 in (48 mm)

## Weight

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2.6 lb (1.2 kg)

## MODELS & ACCESSORIES

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### Available Models

**TPMC-9LA-T:** 9" Wall Mount Touch Screen, Almond Textured

**TPMC-9LB-T:** 9" Wall Mount Touch Screen, Black Textured

**TPMC-9LW-T:** 9" Wall Mount Touch Screen, White Textured

### Included Accessories

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**TPMC-9L-FPA-T\_BLANK:** Engravable Faceplate w/Buttons, Almond Textured, no engraving (Qty. 1 included with TPMC-9LA-T)

**TPMC-9L-FPB-T\_BLANK:** Engravable Faceplate w/Buttons, Black Textured, no engraving (Qty. 1 included with TPMC-9LB-T)

**TPMC-9L-FPW-T\_BLANK:** Engravable Faceplate w/Buttons, White Textured, no engraving (Qty. 1 included with TPMC-9LW-T)

**TPMC-9L-FPA-T-NB:** No-button Faceplate, Almond Textured (Qty. 1 included with TPMC-9LA-T)

**TPMC-9L-FPB-T-NB:** No-button Faceplate, Black Textured (Qty. 1 included with TPMC-9LB-T)

**TPMC-9L-FPW-T-NB:** No-button Faceplate, White Textured (Qty. 1 included with TPMC-9LW-T)

### Available Accessories

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**TPMC-9L-FPA-T\_ENGRAVED:** Engravable Faceplate w/Buttons, Almond Textured, includes custom engraving

**TPMC-9L-FPB-T\_ENGRAVED:** Engravable Faceplate w/Buttons, Black Textured, includes custom engraving

**TPMC-9L-FPW-T\_ENGRAVED:** Engravable Faceplate w/Buttons, White Textured, includes custom engraving

**TPMC-9L-FP-BKLT-A-T\_ENGRAVED:** Backlit Engravable Faceplate w/Buttons, Almond Textured, includes custom engraving

**TPMC-9L-FP-BKLT-B-T\_ENGRAVED:** Backlit Engravable Faceplate w/Buttons, Black Textured, includes custom engraving

**TPMC-9L-FP-BKLT-W-T\_ENGRAVED:** Backlit Engravable Faceplate w/Buttons, White Textured, includes custom engraving

**TPMC-9L-FP-BKLT-A-T\_BLANK:** Backlit Engravable Faceplate w/Buttons, Almond Textured, engraving not included

**TPMC-9L-FP-BKLT-B-T\_BLANK:** Backlit Engravable Faceplate w/Buttons, Black Textured, engraving not included

**TPMC-9L-FP-BKLT-W-T\_BLANK:** Backlit Engravable Faceplate w/Buttons, White Textured, engraving not included

**BB-9L:** Back Box

**BBI-9L:** Back Box - International Version

**PMK-9L:** Pre-Construction Mounting Kit

**TMK-9L:** Trim Ring for BB-9L and PMK-9L

**MMK-9L:** Mud Ring for BB-9L and PMK-9L

**WMKT-9L:** Post-Construction Mounting Kit w/Trim Ring

**WMKM-9L:** Post-Construction Mounting Kit w/Mud Ring

**WMKB-6L:** 10 Sets Replacement Mounting Clips

**RMK-9L:** Rack Mount Kit

**CEN-NVS200:** Network Video Streamer

**SW-VMK-WIN:** TouchPoint® Virtual Mouse & Keyboard Software for Windows®

**CRESCAT-NP:** Crestron Home® CAT5 AV Cable, Single CAT5e & Cresnet, non-plenum

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**CRESNET-NP:** Cresnet® Control Cable, non-plenum

**CRESNET-P:** Cresnet® Control Cable, plenum

**CRESNET-HP-NP:** Cresnet® "High-Power" Control Cable, non-plenum

**Notes:**

1. Item(s) sold separately.
2. H.264 compatible IP camera required.

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 [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

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

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