Isys™ 9" Wall Mount Touchpanel

The Crestron Isys® TPMC-9L Wall Mount Touchpanel delivers high-end style and performance in a compact, cost-effective flush mount design. Powered by the Core 3 OS and featuring a brilliant, high-contrast 9" WVGA touchscreen with advanced color graphics, video, and 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.

Crestron touchpanels offer an ideal user-interface for controlling everything from basic audio distribution and lighting to complete home automation and multimedia presentation, providing a wide-open canvas for the creation of custom control screens perfectly tailored to the needs of the end-user. Touchpanels do away with cluttered wall switches and cryptic control panels, affording true "one-touch" control over a broad range of complex devices and systems.

Advanced Touchpanel Control
Fully custom touchpanel versatility is afforded through the TPMC-9L's generous 9" widescreen format touchscreen, displaying stunning 16-bit color graphics and 24-bit video. Dynamic graphics and text capabilities enable the display of all kinds of useful data and alluring eye candy—from AV controls and icons—to room temperature and lighting levels—to photos and video—to digital media playlists complete with metadata and cover art. Advanced gestures navigation, animated objects, multi-mode buttons, PNG translucency, and page transition effects enhance the palette for creating interactive GUIs that are both eye-catching and easy to use.

Powered by Core 3 [Available Q2 2011]
The Crestron Core 3 framework enables the generation of dynamically rich user interfaces with greater power and ease than ever. Core 3 lets touchpanel designers merge multiple objects and apps on screen leveraging the power of Adobe® Flash®, multi-format video, IP intercom, and other emerging technologies to deliver an engaging and ultra-intuitive touchpanel experience. Use gestures navigation to effortlessly browse through music and movie libraries, scroll through TV channels and radio stations, and select any desired control app from an intuitive menu of colorful 3D icons. Personalize the touchpanel desktop with animated clocks, calendars, weather widgets, news feeds, and other informative objects. Even apply themes and backgrounds that change on the fly with each user, event, or season.

But, the power of Core 3 extends beyond impressive graphics and animated objects, unleashing tremendous new capabilities for controlling devices and managing a complete integrated system. Using the Core 3 SDK, programmers can develop fully functioning "device apps" that can be dropped into each touchpanel project without additional programming or resizing. Or, choose from an expanding library of fully developed device apps to instantly add controls for security systems and HVAC, provide sophisticated navigation for media servers and tuners, and enable user-friendly editing of lighting scenes and channel presets. With Core 3, the possibilities are virtually limitless.

Integrated Video
For monitoring security cameras or previewing a DVD or television channel, the TPMC-9L provides multiple ways to view video signals right on the touchscreen. Video images can be displayed full screen, or at any location on the screen in a fully-scalable window. Full-motion video is supported via a direct wired connection from an external video source.

Native support for the motion-JPEG streaming format also allows the TPMC-9L to display live video from a Web camera or server right over the LAN connection. Conventional cameras and other video sources can easily be adapted for streaming to the TPMC-9L using the Crestron CEN-NVS100 Network Video Streamer[1], eliminating the need to run any dedicated video wiring.

IP Intercom
Equipped with integrated speakers and microphone, the TPMC-9L allows panel-to-panel voice communication and room monitoring via IP over Ethernet, eliminating the need for any special audio wiring, switchers, or programming.

Audio Feedback
Customized WAV files can be loaded on the TPMC-9L to add dimension to its touchscreen 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 touchscreen, making it possible to align dynamically changing text and graphics onscreen beside the pushbuttons to support context-sensitive menu functions such as digital media titles, channels, or lighting presets. 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
Its built-in light sensor automatically adjusts the TPMC-9L’s display brightness and button backlighting for an optimal appearance and clear legibility in both darkened and fully lit rooms.

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.
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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 including optional back box and 19-inch rack mount kit.

> Stylish flush-mount design for in-wall and lectern installation
> Generous 9" widescreen color touch display
> 16-bit color touchpanel graphics powered by Core 3
> 800 x 480 WVGA resolution
> Dynamic graphics & text capability
> Programmable swipe gestures for page flips and other functions
> Streaming and full-motion wired video display
> Crestron IP intercom
> WAV file audio feedback
> 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
> Button engraving available as solid or backlit text
> Auto-brightness control for display and button backlighting
> No-button blank faceplate also provided
> Wall, lectern, and rack mounting options
> Available in matte almond, black, or white

SPECIFICATIONS

Touchscreen 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/m²)
Contrast: 700:1
Color Depth: 24-bit, 16.7M colors
Illumination: Edgelit fluorescent w/auto-brightness control
Viewing Angle: ±88° horizontal, ±88° vertical
Touchscreen: Resistive membrane

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: 40 MB

Graphics Engine
16-bit non-palette graphics; 65,536 colors; Crestron Core 3 framework, multi-mode objects; dynamic graphics and text; PNG translucency; full-motion (60 fps) animation; transition effects; color key video windowing

Embedded Applications
Crestron MJPEG Viewer, Crestron IP intercom

Communications
Ethernet: 10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, for control and console
Cresnet: Cresnet slave mode for control and console
USB: USB 1.1 client for console

Video
Input Signal Types: Composite
Formats: NTSC 480i or PAL 576i
Color Depth: 24-bit, 16.7M colors
Windowing: Single-window, deinterlaced, fully-scalable w/zoom/stretch
Streaming Formats: MJPEG

Audio
Hardware Features: Built-in microphone and amplified speakers
Functions: IP Intercom, audio feedback, keyclick
Audio Feedback: WAV format, 8 & 16 bit PCM, mono & stereo, 8 - 44.1 kHz sampling rates

Connectors
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 cable
VIDEO, UNBL: (1) 2-pin 3.5mm detachable terminal block;
Unbalanced composite video input;
Input Impedance: 75 ohm 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, 10/100BaseT Ethernet port
USB: Mini-B USB 1.1 console port (behind faceplate);
Mini-B to A USB cable included

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

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

Enclosure
Construction: Injection-molded plastic, flush-mountable using (4) clips provided (additional mounting kits available)
Faceplate: Injection-molded plastic, button and no-button faceplates included, optional solid or backlit button engraving sold separately

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

Weight: 2.6 lb (1.2 kg)

Available Models
TPMC-9LA-T: Isys™ 9" Wall Mount Touchpanel, Matte Almond
TPMC-9LB-T: Isys™ 9" Wall Mount Touchpanel, Matte Black
TPMC-9LW-T: Isys™ 9" Wall Mount Touchpanel, Matte White

Included Accessories
TPMC-9L-FFP-B-T_BLK No-button Faceplate for TPMC-9L, Matte Black, engraving not included [Included Quantity for TPMC-9LB-T: 1]
TPMC-9L-FFP-A-T_BLK Engravable Faceplate w/Buttons for TPMC-9L, Matte Black, engraving not included [Included Quantity for TPMC-9LA-T: 1]
TPMC-9L-FFP-W-T_BLK Engravable Faceplate w/Buttons for TPMC-9L, Matte White, engraving not included [Included Quantity for TPMC-9LW-T: 1]

Available Accessories
TPMC-9L-FFP-BKLT-B-T_ENGRAVED: Backlit Engravable Faceplate w/Buttons for TPMC-9L, Matte Black, includes custom engraving
TPMC-9L-FFP-BKLT-W-T_ENGRAVED: Backlit Engravable Faceplate w/Buttons for TPMC-9L, Matte White, includes custom engraving

Notes:
1. Item(s) sold separately.
2. Contact Crestron for a current list of embedded applications. To ensure reliable performance, new device drivers and applications are available only from Crestron through firmware updates.

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 or by calling 800-237-2041.

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