# TPMC-9

## Isys™ 9" Tilt Touchpanel

The Crestron Isys® TPMC-9 Tilt Touchpanel delivers high-end style and performance in a striking tabletop design. Sleek and compact, the TPMC-9 does away with piles of remotes and cryptic control panels, affording true "one-touch" control over a broad range of complex devices and systems. Powered by the Core 3 OS and featuring a brilliant, high-contrast 9" WVGA touchscreen with advanced color graphics, video, and intercom, the TPMC-9 offers an ideal user-interface for controlling multimedia presentations, home automation, and a host of other uses.

### Advanced Touchpanel Control

Fully custom touchpanel versatility is afforded through the TPMC-9'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-9 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-9 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-9 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-9 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-9 to add dimension to its touchscreen graphics using personalized sounds, button feedback, and voice prompts.

### Versatile Install Options

With its integral tilting base, the TPMC-9 provides a very clean and stylish touchpanel solution for small countertops, desks, podiums, and bedside tables. The screen tilt is installer-adjustable at up to a 45 degree angle for optimal viewing and operation.[2]

A single cable exits the rear of the touchpanel base. The 10 ft (3 m) cable extends to a separate interface module (TPS-6X-IMCW[3]), which may be discreetly mounted to a flat surface or in a flush wall box, providing full connectivity for power, communications, and video signals. Control system communication is afforded through Cresnet and Ethernet ports. Wired video connectivity is handled through a choice of balanced or unbalanced composite inputs, allowing compatibility with both conventional coaxial and Crestron Home® Balanced AV distribution systems.

> Sleek, contoured design for tabletop use

> Elegant high gloss black or white, or matte black finishes

> 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

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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

> Up to 45 degree tilt adjustment[2]

> Low-profile single-wire connection

> Available in gloss black, gloss white, or matte black

## 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
**Viewing Angle:** ±88° horizontal, ±88° vertical
**Touchscreen:** Resistive membrane

### Buttons
**Reset:** (1) Miniature pushbutton for hardware reset, on rear

### 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 [4]

### 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
**To Module:** Integral 10 ft (3 m) cable with 10-pin RJ50 male connector; Connects to TPS-6X-IMCW interface module[3];
See the TPS-6X-IMCW interface module specification for other connectors
**USB:** Mini-B USB 1.1 console port, on rear;
Mini-B to A USB cable included

### Power Requirements
**Power Pack:** 0.75 Amps @ 24 Volts DC;
100-240 Volts AC, 50/60 Hz power pack, model PW-2407WU included
**Cresnet Power Usage:** 18 Watts (0.75 Amps @ 24 Volts DC) including TPS-6X-IMCW module[3]
Note: May be powered by power pack or Cresnet network power, not both. All power connections are made via the TPS-6X-IMCW interface module[3]

### Environmental
**Temperature:** 32° to 95°F (0° to 35°C)
**Humidity:** 10% to 90% RH (non-condensing)
**Heat Dissipation:** 61 BTU/hour

### Enclosure
Plastic, 0° to 45° adjustable tilt mechanism[2], low-profile base, integral 10 ft (3 m) cable assembly

### Dimensions
**Height:** 7.09 in (180 mm) maximum;
6.91 in (176 mm) minimum
**Width:** 10.72 in (273 mm)
**Depth:** 7.02 in (179 mm);
6.48 in (165 mm) without grommet

### Weight
4.1 lb (1.9 kg)

### Available Models
**TPMC-9-B:** Isys™ 9" Tilt Touchpanel, Gloss Black
**TPMC-9-B-T:** Isys™ 9" Tilt Touchpanel, Matte Black
**TPMC-9-W-S:** Isys™ 9" Tilt Touchpanel, Gloss White

### Included Accessories
**TPS-6X-IMCW** Interface Module for TPS-6, TPS-6X-DS, TPS-6X-DS-LP, & TPMC-9 [Included Quantity for TPMC-9-B, TPMC-9-B-T, TPMC-9-W-S: 1]
**PW-2407WU** Wall Mount Power Pack 24VDC, 0.75A, Universal [Included Quantity for TPMC-9-B, TPMC-9-B-T, TPMC-9-W-S: 1]

### Available Accessories
**CEN-NVS100:** Network Video Streamer [Discontinued]
**CEN-NVS100-PWE:** Network Video Streamer w/PoE Injector [Discontinued]
**SW-VMK-WIN:** TouchPoint™ Virtual Mouse & Keyboard Software for Windows® [Release Date: TBA]
**CRESNET-NP-TL-B250:** Cresnet® Control Cable, non-plenum, teal, 250 ft box
**CRESNET-NP-TL-B500:** Cresnet® Control Cable, non-plenum, teal, 500 ft box
**CRESNET-NP-BK-B500:** Cresnet® Control Cable, non-plenum, black, 500 ft box
**CRESNET-NP-OR-B500:** Cresnet® Control Cable, non-plenum, orange, 500

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**CRESNET-NP-TL-SP500:** Cresnet® Control Cable, non-plenum, teal, 500 ft spool
**CRESNET-NP-TL-SP1000:** Cresnet® Control Cable, non-plenum, teal, 1000 ft spool
**CRESNET-P-BK-SP500:** Cresnet® Control Cable, plenum, black, 500 ft spool
**CRESNET-P-OR-SP500:** Cresnet® Control Cable, plenum, orange, 500 ft spool
**CRESNET-P-YL-SP500:** Cresnet® Control Cable, plenum, yellow, 500 ft spool
**CRESNET-P-TL-SP500:** Cresnet® Control Cable, plenum, teal, 500 ft spool
**CRESNET-P-TL-SP1000:** Cresnet® Control Cable, plenum, teal, 1000 ft spool
**CRESNET-HP-NP-TL-SP500:** Cresnet® "High-Power" Control Cable, non-plenum, teal, 500 ft spool
**CRESNET-HP-NP-TL-SP1000:** Cresnet® "High-Power" Control Cable, non-plenum, teal, 1000 ft spool
**CRESCAT-NP-SP500:** Crestron Home® CAT5 AV Cable, Single CAT5e & Cresnet, non-plenum, 500 ft spool

Notes:
1. Item(s) sold separately.

2. The tilt angle must be set to a fixed position for normal use. Adjustment of the tilt angle requires a 5/32" hex wrench (included).

3. Item included, see individual product specifications for additional information.

4. 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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