

TPMC-4SM

Isys i/O® 4.3" Wall Mount Touchpanel Media Center

With its clean, contoured appearance, the Isys i/O TPMC-4SM Wall Mount Touchpanel Media Center makes an elegant statement in any environment. Perfectly at home in the most modern office building, hotel, or residence, its high-tech good looks underline its power for simplifying everyday tasks and functions throughout any facility, all in a very affordable device that's versatile and easy to install.

An incredibly thin profile and small footprint allow the TPMC-4SM to be installed in places other touchpanels just can't go, providing the choice of mounting to a standard electrical box or to virtually any flat surface — even glass, granite, or marble. A table top enclosure is also available, affording a very stylish, space-saving solution for placement on a desktop or bedside table. Complete connectivity is provided through a single high-speed Ethernet connection, containing all control, video, intercom, and power signals within a single wire.

The TPMC-4SM packs the latest Crestron digital touchpanel technology, delivering amazing new graphics capabilities, plus streaming video and 2-way IP intercom. Other new features include dual-color backlit buttons, built-in proximity sensor, PoE network power, occupancy sensor inputs, and out-of-the-box room scheduling capability for use with Crestron **RoomView® Server Edition** room management software.

Widescreen Touchpanel

Fully custom touchpanel versatility is afforded through a brilliant 4.3" widescreen format touchscreen, displaying stunning 16-bit color graphics and video. Dynamic graphics and text capability 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.

Crestron DNav technology affords enhanced touchpanel functionality in less space, providing dynamic navigation control objects for scrolling effortlessly through large menus. Full-motion animations, multimode objects, PNG translucency, transition effects, and streaming video enhance the palette for creating GUIs that are both eye-catching and easy to use.

Dual-Color Backlit Buttons

The TPMC-4SM comes standard with 10 programmable "hard key" pushbuttons for quick access to commonly used functions. Discrete red and green LEDs behind each translucent button afford enhanced multi-state feedback capability for clear status indication of each button function. The LEDs may also be set to provide dimmable backlighting of the buttons, with independent control over the left and right columns, for a custom appearance and enhanced visibility.

Customized labeling of the covers surrounding the pushbuttons can be attained simply using Crestron Engraver software. Or, for a clean appearance, either column of buttons may be removed and covered using the no-button covers provided.

Room Scheduling Mode

The TPMC-4SM works directly with our **RoomView® Server Edition** room management software to provide a powerful enterprise-wide room scheduling solution. Installed outside the entrance to every meeting room, the TPMC-4SM provides an immediate view of each room's availability, with the ability to look up the calendar for any room on the network, and even book the room right on-the-spot. The dual-color buttons gives a clear indication of a room's status at-a-glance, lighting green when the room is available and red when it is in use. The touchpanel's contoured shape



assures that, even when mounted in a narrow hallway, the buttons remains clearly visible at a distance to either side.

Occupancy Sensing

Crestron GLS-series room occupancy sensors can be connected directly to the TPMC-4SM to allow automation of the room's lighting, climate control, and other devices. In Room Scheduling Mode, the sensors allow RoomView to detect when no one has shown up for a scheduled meeting, so even if the meeting is not cancelled or rescheduled by its host, the calendar can be updated automatically to make the room available to other users.

Proximity Sensor

The TPMC-4SM senses as you approach it, waking its display automatically without having to touch the screen so it's always ready for use.

Streaming Video

An onboard streaming video player makes it possible to monitor a security camera, or preview a DVD or television channel, right on the touchscreen display. Native support for the motion-JPEG streaming format allows the TPMC-4SM to display live video from a variety of Web cameras and servers including the Crestron **CEN-NVS100** Network Video Streamer*.

IP Intercom

Built-in IP intercom capability facilitates direct panel-to-panel intercom and monitoring right over the LAN without requiring any additional AV wiring. The TPMC-4SM features an integrated microphone and speaker for clear speech communication.

Audio Feedback

Customized WAV files can be loaded on the TPMC-4SM to add dimension to its touchscreen graphics using personalized sounds, button feedback, and voice prompts.

Single-Wire Connectivity

A simple Ethernet LAN connection is all that is required to wire the TPMC-4SM, enabling seamless communication with Crestron control systems, computers, video servers, and other touchpanels.

Power over Ethernet

The TPMC-4SM gets its power right through the LAN wiring using 802.3af

TPMC-4SM

power supply or any dedicated power wiring. A PoE Injector (**PWE-4803RU***) simply connects inline with the LAN cable, allowing for installation at any convenient location. For applications with multiple TPMC-4SMs or other PoE-powered devices, a Crestron 5-port PoE switch (**CEN-SW-POE-5***) may be used, allowing up to 4 devices to be powered from a single location.

Simple, Versatile Mounting

The TPMC-4SM installs easily on virtually any mounting surface. As standard, it mounts directly to a single-gang electrical box (horizontally oriented) or European electrical box, requiring just 1/2-inch mounting depth while protruding less than 3/4-inch from the wall surface. For impenetrable surfaces, such as decorative glass, granite, marble, plaster, smooth stone and masonry, Crestron offers the **MSMK-4SM** Multi-Surface Mount Kit*, providing a very versatile mounting solution complete with a low-profile rear shell enclosure, adhesive mounting plate, optional angle bracket, and wire raceway. The **TTK-4SM** Table Top Kit* converts the TPMC-4SM into a stylish, compact tabletop touchpanel, perfect for free-standing use or permanently-mounted on a tabletop or counter surface.

* *Item sold separately.*

- > *Modern, contoured appearance*
- > *Thin profile and small footprint*
- > *Affordable and easy to install*
- > *4.3" widescreen color touchscreen*
- > *16-bit Isys i/O graphics*
- > *800 x 480 resolution*
- > *DNav dynamic menu objects*
- > *Streaming video*
- > *Crestron IP intercom*
- > *WAV file audio feedback*
- > *Built-in microphone and speaker*
- > *Built-in proximity sensor*
- > *10 optional "hard key" pushbuttons*
- > *Dual-color button backlighting and feedback*
- > *Engravable button text*
- > *RoomView® room scheduling mode*
- > *Room occupancy sensor option*
- > *Single-wire Ethernet connectivity*
- > *PoE network powered*
- > *Available in gloss black or white*
- > *Fits in a horizontal 1-gang or Euro back box*
- > *Available tabletop and multi-surface mount kits*

SPECIFICATIONS

Touchscreen Display

Display Type : TFT Active matrix color LCD
Size: 4.3 inch (10.9 cm) diagonal
Aspect Ratio: 16:9 WVGA
Resolution: 800 x 480 pixels
Brightness: 270 nits (cd/m²)
Contrast: 300:1
Color Depth: 16-bit, 64k colors
Illumination: Backlit LED
Viewing Angle: ±80° horizontal, ±80° vertical
Touchscreen: Resistive membrane

Buttons

Hard Keys: (10) Optional programmable pushbuttons, translucent backlit
Feedback/Backlight: (1) red and (1) green LED per hard key, programmable for feedback and backlighting
Reset: (1) Recessed pushbutton behind pinhole for hardware reset

Proximity Sensor

Type: Active infrared beam and receiver
Range: 3-4 feet

Memory

SDRAM: 256 MB
Flash: 2 GB
Maximum Project Size: 80 MB

Graphic Engine

Isys i/O engine, 16-bit non-palette graphics; 65,536 colors; multi-mode objects; DNav dynamic menu objects; dynamic graphics; PNG translucency; full-motion (60 fps) animation; transition effects

Embedded Software Applications†

Crestron MJPEG Viewer, Crestron IP Intercom

Ethernet

10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, IEEE 802.3U & 802.3af compliant

Video

Streaming Formats: MJPEG via Crestron MJPEG Viewert†

Audio

Hardware Features: Built-in microphone and speaker
Amplification: Mono, 0.5 Watts
Audio Feedback (WAV): 8 & 16 bit PCM, mono & stereo, 8 - 44.1 kHz sampling rates

Connectors

LAN PoE: (1) 8-wire RJ45 with 2 LED indicators;
10BaseT/100BaseTX Ethernet port;
802.3af Power over Ethernet compliant;
Green LED indicates link status;
Yellow LED indicates Ethernet activity
Occupancy Sensor Input: (4) captive screw terminals comprising (2) voltage sensing inputs (referenced to GND) with 24 Volt DC power output;
Input Voltage Range: 0-30 Volts DC;
Sensing Threshold: ≥4.5 Volts DC active, ≤1 Volt DC inactive;
Maximum DC Load: 4 Watts @ 24 Volts DC, provides operating power for up to (4) Crestron GLS Series occupancy sensors

TPMC-4SM

Power Requirements

Power over Ethernet: IEEE 802.3af Class 3 PoE Powered Device

Environmental

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

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

Heat Dissipation: 14 BTU/Hr

Enclosure

Construction: Plastic

Front Bezel: Plastic, includes button and no-button covers, button covers include default engraving, custom engraving sold separately

Mounting: Requires a horizontally-oriented 1-Gang electrical box or plaster ring, or a 1-Gang European (DIN 49073) electrical box; choice of standard or security screws provided; optional multi-surface and table top mounting kits sold separately

Dimensions

Height: 3.47 in (89 mm)

Width: 6.20 in (158 mm)

Depth: 1.21 in (31 mm)

Weight

8.8 oz (249 g)

* *Item sold separately.*

†*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.*

Available Models

TPMC-4SM-B-S: Isys i/O 4.3" Wall Mount Touchpanel Media Center, Black, Smooth

TPMC-4SM-W-S: Isys i/O 4.3" Wall Mount Touchpanel Media Center, White, Smooth

Included Accessories

4SM-BTNO-B-S Engravable Button Covers w/Custom Engraving, Set of 2, Gloss Black

[Included Quantity for TPMC-4SM-B-S: 1]

4SM-BTNO-W-S Engravable Button Covers w/Custom Engraving, Set of 2, Gloss White

[Included Quantity for TPMC-4SM-W-S: 1]

Available Accessories

4SM-BTNO-B-S: Engravable Button Covers w/Custom Engraving, Set of 2, Gloss Black

4SM-BTNO-W-S: Engravable Button Covers w/Custom Engraving, Set of 2, Gloss White

CEN-NVS100: Network Video Streamer

CEN-NVS100-PWE: Network Video Streamer w/PoE Injector

CEN-SW-POE-5: 5-Port PoE Switch

GLS-ODT-C-1000: Crestron Green Light™ Dual-Technology Ceiling Mount Occupancy Sensor, 1000 Sq. Ft.

GLS-ODT-C-2000: Crestron Green Light™ Dual-Technology Ceiling Mount Occupancy Sensor, 2000 Sq. Ft.

GLS-ODT-C-500: Crestron Green Light™ Dual-Technology Ceiling Mount Occupancy Sensor, 500 Sq. Ft.

GLS-ODT-W-1200: Crestron Green Light™ Dual-Technology Wall Mount Occupancy Sensor, 1200 Sq. Ft.

GLS-OIR-C-1500: Crestron Green Light™ Passive Infrared Ceiling Mount Occupancy Sensor, 1500 Sq. Ft.

GLS-OIR-C-450: Crestron Green Light™ Passive Infrared Ceiling Mount Occupancy Sensor, 450 Sq. Ft.

GLS-OIR-W-2500: Crestron Green Light™ Passive Infrared Wall Mount Occupancy Sensor, 2500 Sq. Ft.

MSMK-4SM-B-S: Multi-Surface Mount Kit, Gloss Black

MSMK-4SM-W-S: Multi-Surface Mount Kit, Gloss White

PWE-4803RU: PoE Injector

SMK-4SM: Swivel Mount Kit for TTK-4SM

TTK-4SM-B-S: TableTop Mount Kit, Gloss Black

TTK-4SM-W-S: TableTop Mount Kit, Gloss White

TPMC-4SM

