4.3" Designer Touch Screen

> *Modern, contoured appearance*

> *Thin profile and small footprint*

> *Affordable and easy to install*

> *4.3" widescreen active-matrix color touch screen*

> *800 x 480 WVGA display resolution*

> *Smart Graphics™ support*

> *High-performance H.264 streaming video*

> *Crestron IP intercom*

> *Customizable audio feedback*

> *Built-in microphone and speaker*

> *Built-in proximity sensor*

> *10 optional "hard key" pushbuttons*

> *White LED button backlighting and feedback*

> *Custom engravable button text*

> *Room occupancy sensor option[1]*

> *Single-wire Ethernet connectivity*

> *PoE network powered*

> *Versatile wall, surface, and tabletop mounting options*

> *Available with black or white smooth finish*

With its clean, contoured appearance, the TPMC-4SMD Designer Touch Screen from Crestron® makes an elegant statement in any environment. Perfectly at home in the most contemporary residence or modern office building, 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-4SMD to be installed in places other touch screens 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-4SMD provides a customizable touch screen controller featuring Smart Graphics™, H.264 streaming video, audio feedback, and 2-way IP intercom, cohesively merged into one seamless user interface. Additional features include white LED backlit buttons, a built-in proximity sensor, PoE network power, and occupancy sensor inputs.

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. Crestron touch screens are fully-customizable for controlling audio, video, lighting, shades, HVAC, security, and other systems — with easy-to-use controls and icons, true feedback and real-time status

display, live streaming video, 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, and 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.

White Backlit Buttons

The TPMC-4SMD comes standard with 10 programmable "hard key" pushbuttons for quick access to commonly used functions. Each button features a translucent button cap with white LED backlighting. The backlighting is fully dimmable, either globally or separately for the left side and right side. Alternately, each button LED can be programmed to provide discrete feedback, affording clear indication of the status of each individual button.

TPMC-4SMD-B-S with "No-Button" Covers

TPMC-4SMD-W-S with "No-Button" Covers and TTK-4SM TableTop Kit

TPMC-4SMD-B-S with WMKU-4SM Universal Wall Mount Kit

TPMC-4SMD-W-S with "No-Button" Covers and MSMK-4SM Multi-Surface Mount Kit (Shown w/optional angle bracket)

The TPMC-4SMD comes standard with its buttons pre-labeled for typical room control functions. Customized labeling can be attained using Crestron Engraver software. Or, for a clean appearance, either column of buttons may be removed and covered using the no-button covers provided.

Proximity Sensor

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

Streaming Video

High-performance streaming video capability makes it possible to view security cameras and other video sources over the network right on the touch screen. Native support for H.264 and MJPEG formats allows the TPMC-4SMD to display live video images from IP cameras and servers such as the Crestron CEN-NVS200 Network Video Streamer[1].

IP Intercom

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

Audio Feedback

Customized audio files can be loaded on the TPMC-4SMD to add another dimension to its touch screen 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-4SMD, containing all control, video, intercom, and power signals within a single wire.

Power over Ethernet

Using PoE technology, the TPMC-4SMD gets its operating power right through the LAN wiring. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. A PoE Injector (PWE-4803RU[1]) simply connects inline with the LAN cable at any convenient location. Crestron PoE switches (CEN-SW-POE-5, CEN-SWPOE-16, or CEN-SWPOE-24[1]) may also be used to provide a total networking solution with built-in PoE.

Occupancy Sensing

Crestron GLS-series room occupancy sensors can be connected directly to the TPMC-4SMD to allow automation of the room's lighting, climate control, and other devices.

Simple, Versatile Mounting

The TPMC-4SMD 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. It can also be adapted for mounting to a vertically-oriented 1-gang or 2-gang electrical box, or a 2-gang UK electrical box, using the optional WMKU-4SM Universal Wall Mount Kit[1], which can also be used without an electrical box for a low-profile surface-mount solution[2].

For impenetrable surfaces, such as decorative glass, granite, marble, plaster, smooth stone and masonry, Crestron offers the MSMK-4SM Multi-Surface Mount Kit[1], which provides a very versatile mounting solution complete with a low-profile rear shell enclosure, adhesive mounting plate, optional angle bracket, and wire raceway. And finally, the TTK-4SM Table Top Kit[1] converts the TPMC-4SMD into a stylish, compact tabletop touch screen, perfect for free-standing use or permanently-mounted on a tabletop or counter surface.

SPECIFICATIONS

Touch Screen Display

Display Type: TFT Active matrix color LCD
Size: 4.3 inch (109 mm) 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
Touch Screen: Resistive membrane

Buttons

Hard Keys: (10) Optional programmable pushbuttons, translucent backlit
Feedback/Backlight: (1) white 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

Wakes the touch screen and backlight

Memory

SDRAM: 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, IEEE 802.3af and 802.3at compliant

Video

Streaming Formats: H.264 (MPEG-4 part 10 AVC), MJPEG

Audio

Features: Built-in microphone and speaker, Crestron IP Intercom
Amplification: Mono, 0.5 Watts
Audio Feedback Formats: MP3 using Smart Graphics, WAV using "traditional" graphics

Connectors

LAN PoE: (1) 8-wire RJ45 with 2 LED indicators;
10Base-T/100Base-TX Ethernet port;
Power over Ethernet compliant;
Green and yellow LEDs indicate Ethernet port status

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: $\geq$4.5 Volts DC active, $\leq$1 Volt DC inactive;
Maximum DC Load: 4 Watts @ 24 Volts DC, provides operating power for up to (4) Crestron GLS Series occupancy sensors

Power Requirements

Power over Ethernet: IEEE 802.3af (802.3at Type 1) 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, black or white, smooth finish
Front Bezel: Plastic, hard buttons installed with pre-labeled button covers, custom engraving sold separately, "no-button" covers also included
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 universal wall, 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)

CRESTRON®

Weight

8.8 oz (249 g)

MODELS & ACCESSORIES

Available Models

TPMC-4SMD-B-S: 4.3" Designer Touch Screen, Black Smooth
TPMC-4SMD-W-S: 4.3" Designer Touch Screen, White Smooth

Available Accessories

4SM-BTNO: Engravable Button Covers, Set of 2
WMKU-4SM: Universal Wall Mount Kit
MSMK-4SM: Multi-Surface Mount Kit
TTK-4SM: TableTop Kit
SMK-4SM/730: Swivel Mount Kit for TTK-4SM
PWE-4803RU: PoE Injector
CEN-SW-POE-5: 5-Port PoE Switch
CEN-SWPOE-16: 16-Port Managed PoE Switch
CEN-SWPOE-24: 24-Port Managed PoE Switch
GLS-ODT-C Series: Crestron Green Light® Dual-Technology Ceiling Mount Occupancy Sensors
GLS-ODT-W Series: Crestron Green Light® Dual-Technology Wall Mount Occupancy Sensors
GLS-OIR-C Series: Crestron Green Light® Passive Infrared Ceiling Mount Occupancy Sensors
GLS-OIR-W Series: Crestron Green Light® Passive Infrared Wall Mount Occupancy Sensors
CEN-NVS200: Network Video Streamer
SW-VMK-WIN: TouchPoint® Virtual Mouse & Keyboard Software for Windows®

Notes:

1. Item(s) sold separately.
2. WMKU-4SM mounting option requires a minimum surface cut-out or wall box opening of 1.7" high x 2.0" wide.

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