

Isys® 2.8" Designer Touch Screen

- > Modern, contoured appearance
- > Thin profile and small footprint
- > Affordable and easy to install
- > 2.8" color touch screen
- > 16-bit color graphics
- > 240 x 320 resolution
- > Streaming video
- > Quick-access pushbuttons
- > White LED button backlighting
- > Single-wire Ethernet connectivity
- > PoE network powered
- > Single-gang wall box mountable
- > Available in smooth black or white

In the space of a light switch, the Isys® TPMC-3SMD Designer Touch Screen affords total control over audio, video, lighting, climate, and other systems. Its clean, contoured appearance makes an elegant statement in any custom home or corporate environment. 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.

Color Touch Screen

Fully custom functionality is afforded through a brilliant 2.8" touch screen, displaying 16-bit color graphics and 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. You can even view and control what's playing on your media server or Internet radio tuner complete with metadata and cover art. 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.

Tactile Pushbuttons

To complement its color touch screen, the TPMC-3SMD includes physical pushbuttons for quick access to commonly used functions. Below the screen are up/down buttons that can be assigned for adjusting audio system volume, scrolling through media titles and radio/TV channels, or raising/lowering the room temperature and lighting levels. In addition, "Mute" and "Home" buttons are provided for muting the audio system and returning the touch screen to the main page. Two backlit "hard key" buttons are also included at the upper corners of the TPMC-3SMD, labeled for power control and lighting functions. These may be assigned to access relevant control pages on the touch screen, or to control AV system power and room lighting with a single press.

All pushbuttons on the TPMC-3SMD are fully programmable for any custom functionality as part of a complete Crestron control system. The two hard key buttons feature translucent button caps with white LED backlighting. The backlighting is fully dimmable, either globally or individually. Alternately, each button LED can be programmed to provide discrete feedback for clear indication of each button's on/off status.



Streaming Video

An onboard streaming video player makes it possible to monitor a security camera or other video source right on the touch screen display. Native support for the motion-JPEG streaming format allows the TPMC-3SMD to display live video from a Web camera or network video streamer (Crestron [CEN-NVS200](#) or equivalent⁽¹⁾).

Single-Wire Connectivity

A simple Ethernet LAN connection is all that is required to wire the TPMC-3SMD, containing all control, video, and power signals within a single wire.

Power over Ethernet

The TPMC-3SMD gets its power right through the LAN wiring using 802.3af PoE technology. 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, allowing for installation at any convenient location. For applications with multiple TPMC-3SMDs or other PoE-powered devices, a Crestron PoE switch ([CEN-SW-POE-5](#) or [CEN-SWPOE-24^{\(1\)}](#)) may be used for a streamlined networking solution with built-in PoE.

Simple Wall Box Mounting

The TPMC-3SMD mounts directly to a single-gang electrical box or European/UK electrical box, requiring just 1/2-inch mounting depth while protruding just over 1/2-inch from the wall surface for a clean, low-profile appearance.

SPECIFICATIONS

Touch Screen Display

Display Type: TFT Active matrix color LCD
 Size: 2.8 inch (72 mm) diagonal
 Aspect Ratio: 3:4 QVGA (portrait orientation)

TPMC-3SMD Isys® 2.8" Designer Touch Screen

Resolution: 240 x 320 pixels
Brightness: 350 nits (cd/m2) typical
Contrast: 500:1 typical
Color Depth: 16-bit, 64k colors
Illumination: Backlit LED
Viewing Angle: ±75° horizontal, +75/-55° vertical
Touch Screen: Resistive membrane

Buttons

Hard Keys: (2) programmable pushbuttons, translucent backlit, labeled with icons for "power" and "lights"
Feedback/Backlight: (1) white LED per hard key, programmable for feedback and backlighting
Home: (1) programmable button, labeled with "home" icon
▼, ▲: (1) programmable rocker button, labeled with "down" and "up" arrow icons
Mute: (1) programmable button, labeled with "audio mute" icon
Reset (bottom): (1) Recessed pushbutton behind pinhole for hardware reset

Memory

RAM: 128 MB
Flash: 256 MB
Maximum Project Size: 20 MB

Graphic Engine

16-bit non-palette graphics, 65,536 colors, multi-mode objects; dynamic graphics and text; PNG translucency; animation; transition effects

Embedded Applications

Crestron MJPEG Viewer

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, IEEE 802.3af compliant

Video

Streaming Formats: MJPEG

Connectors

LAN PoE: (1) 8-wire RJ45 with 2 LED indicators;
10Base-T/100Base-TX Ethernet port;
802.3af Power over Ethernet compliant;
Green and yellow LEDs indicate Ethernet port status

Power Requirements

Power over Ethernet: 4 Watts @ 48 Volts DC;
IEEE 802.3af Class 2 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
Mounting: Requires a 1-Gang electrical box or plaster ring, 1-Gang UK (BS 4662) electrical box, or 1-Gang European (DIN 49073) electrical box; choice of standard or security screw provided

Dimensions

Height: 4.50 in (115 mm)
Width: 3.38 in (86 mm)
Depth: 1.05 in (27 mm)

Weight

4.5 oz (126 g)

MODELS & ACCESSORIES

Available Models

TPMC-3SMD-B-S: Isys® 2.8" Designer Touch Screen, Black Smooth
TPMC-3SMD-W-S: Isys® 2.8" Designer Touch Screen, White Smooth

Available Accessories

PWE-4803RU: PoE Injector
CEN-SW-POE-5: 5-Port PoE Switch
CEN-SWPOE-24: 24-Port Managed PoE Switch
CEN-NVS200: Network Video Streamer
SW-VMK-WIN: TouchPoint™ Virtual Mouse & Keyboard Software for Windows®

Notes:

1. Item(s) sold separately.

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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