TPMC-8T-GA

8.4" TableTop WiFi Touch Screen

> Stylish and compact tabletop design

> 8.4" active matrix touch screen display

> 800 x 600 SVGA display resolution

> Smart Graphics™ support

> Automatic display brightness control

> Wired or wireless Ethernet connectivity

> High-performance 802.11a/b/g Wi-Fi wireless communications

> Up to 80 feet omnidirectional RF range[5]

> Onboard PC applications for Web browsing, playing digital media, and viewing digital documents

> VNC viewer for remotely accessing and controlling external computers

> Native H.264 streaming video for viewing Web cameras and HD sources

> Rava™ SIP Intercom and phone technology

> Customizable audio feedback

> High-powered speakers, headphone jack, and microphone

> 5-way thumbpad, up/down arrow buttons, and 4 "hard keys"

> Stylus with built-in storage slot

> On-screen mouse and keyboard capability

> USB ports for external mouse and keyboard[4]

> Intelligent power management with "wake on touch"

The TPMC-8T-GA from Crestron® is a compact tabletop touch screen controller offering enhanced 2-way wireless or wired performance, onboard multimedia and Web browsing, high-performance H.264 video, Rava™ SIP Intercom, audio feedback, and advanced Smart Graphics™. Its brilliant 8.4" SVGA display and high-powered speakers afford an amazing personal media experience on top of its astounding custom control capabilities. Its fixed-tilt design features a 37 degree angle that's ideal for use at a podium, table, or counter surface to support all kinds of applications.

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, full-motion video windows, 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, embedded

apps, and full-motion 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.

Streaming Video

Streaming video capability makes it possible to view security cameras and other video sources over the wired or wireless network right on the touch screen display. Native support for H.264 and MJPEG formats allows the TPMC-8T-GA to display live video images from IP cameras and servers such as the Crestron CEN-NVS200 Network Video Streamer[1]. And, through its embedded Web browser and media player, it supports a wide variety of other streaming and downloadable video formats, enabling access to all kinds of content from media servers and Web sites like YouTube® and Netflix®[2].

CRESTRON®

Rava™ SIP Intercom

Rava SIP Intercom Technology enables hands-free VoIP communication between any two Rava-enabled Crestron touch screens. Rava works over Wi-Fi or wired Ethernet, supporting 2-way intercom, video intercom[3], paging, and room monitoring without any special wiring. VoIP phone capability is also possible through integration with an SIP-compatible IP phone system or SIP server, allowing hands-free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. Built-in echo cancellation affords true-duplex performance for clear, seamless voice communication using the TPMC-8T-GA's integrated microphone and speakers.

Embedded PC Applications

The TPMC-8T-GA provides everything you need to enjoy online music and videos, browse the Internet, and even review digital documents without a separate computer. With Microsoft® Internet Explorer® embedded, you have full access to the entire World Wide Web including sites that use Flash® or Java®. Windows Media® Player ensures broad compatibility with most types of digital media, and lets you use the TPMC-8T-GA as a personal media player. Adobe® Acrobat® Reader and Microsoft PowerPoint®, Word, and Excel® document viewers complete the online experience, allowing you to download and view documents and presentations.

In addition, VNC Viewer support delivers enhanced cross-platform interaction with computers over the network or Internet, allowing remote access and control of desktop applications to unleash a host of possibilities for system integration and multimedia presentation.

Speakers and Microphone

High-powered built-in speakers and headphone output provide loud and clear audio for enjoying multimedia, as well as for intercom and phone in combination with the integrated microphone. Customized audio files can also be loaded on the TPMC-8T-GA to add dimension to the touch screen graphics with personalized sounds, button feedback, and voice prompts.

Tactile Controls

The integrated 5-way thumbpad and up/down arrow buttons afford quick-access and tactile response for controlling functions such as volume adjustment, channel selection, on-screen menu navigation, and even pan/tilt/zoom camera control. Four additional "hard key" buttons are positioned below the touch screen, programmable for functions that can change right along with the virtual controls on the touch screen. A stylus is even included for use with the on-screen keyboard, conveniently stowed in its own storage slot.

Keyboard/Mouse Options

On-screen keyboard and mouse capabilities enable complete control of the TPMC-8T-GA's embedded Web browser and other applications. It can also be used to control computers running TouchPoint® Virtual Mouse & Keyboard Software (VMK-WIN). Multiple USB ports are also provided for the connection of a physical keyboard and mouse[4].

Power-Saving Enhancements

- Auto-Brightness - smoothly maintains optimal visibility under varying lighting conditions while minimizing power usage.
- Standby Mode - turns off the touch screen display to save power while the hard buttons remain active. Lets you adjust volume or change

Rear View

channels by pressing a hard button without waking the screen.
- Power Down Mode - suspends the touch screen during prolonged periods of non-use. Lets you wake the touch screen by simply touching the screen or pressing the side "Power" button.
- Class D Amplifier - provides efficient amplification for loud and clear audio.

Enhanced Wi-Fi Performance

Crestron has redefined Wi-Fi wireless performance with the TPMC-8T-GA, achieving a remarkable 80 feet omnidirectional range[5]. The choice of 802.11 a, b, and g protocols affords reliable, high-speed 2-way wireless performance in virtually any RF environment. It takes mere minutes to configure the TPMC-8T-GA for use with a Crestron CEN-WAP-ABG Wireless Access Point[1] for a simple, secure Wi-Fi touch screen network solution. A high-speed Ethernet port is also provided for connection to a wired LAN.

SPECIFICATIONS

Touch Screen Display

Display Type: TFT active matrix color LCD
Size: 8.4 inch (213 mm) diagonal
Aspect Ratio: 4:3 SVGA
Resolution: 800 x 600 pixels
Brightness: 200 nits (cd/m2)
Contrast: 500:1
Color Depth: 18-bit, 262k colors
Illumination: Edgelit fluorescent w/auto-brightness control
Viewing Angle: ±65° horizontal, +65°/-45° vertical
Touch Screen: Resistive membrane

Buttons

Hard Keys: (4) programmable pushbuttons below touchscreen
Thumbpad: (1) programmable 5-way thumbpad (4-way navigation plus center "ENTER" button)

Arrows: (2) programmable up/down pushbuttons
Power (left side): (1) pushbutton, initiates "Power On" and "Power Down"

LED Indicators

Power: (1) Green LED, indicates touch screen power status
Battery: (1) Green/yellow dual-color LED, not used
Wi-Fi: (1) Green LED, indicates wireless network connection status

Memory

DDR2 SDRAM: 1 GB
Flash: 4 GB
Maximum Project Size: 190 MB

Graphics Engine

Supports Smart Graphics™ or "traditional" GUI projects

Embedded Applications

Microsoft® Internet Explorer® w/Adobe® Flash® plug-in and Java® Runtime plug-in, Windows Media® Player, VNC Viewer, Remote Desktop, Adobe Acrobat® Reader, WordPad, MS Word Viewer 2003, Excel® Viewer 2003, PowerPoint® Viewer 2003

Wireless Communication

Transceiver: IEEE 802.11a/b/g Wi-Fi (5.8 or 2.4 GHz 2-way RF), static IP or dynamic IP via DHCP, 64 and 128-bit WEP encryption
Range: Up to 80 feet (24.4 m) omnidirectional using 802.11 b/g, 35 feet (10.7 m) omnidirectional using 802.11a, @54Mbps; range and speed vary based upon environmental conditions
Gateway: Requires a CEN-WAP-ABG-1G, CEN-WAP-ABG-CM, or similar 802.11a/b/g wireless access point and Ethernet-enabled Crestron control system
Roaming: Requires a Cisco® controller solution to be installed and commissioned by a Cisco certified technician.

Wired Communication

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP
USB: USB 2.0 host for mouse, keyboard, and USB storage devices

Video

Streaming/File Formats: H.264 (MPEG-4 part 10 AVC), MJPEG, plus other formats as supported by Windows Media Player

Audio

Features: Built-in microphone and speakers, headphone output, Rava™ SIP Intercom, Crestron IP Intercom
Streaming/File Formats: As supported by Windows Media Player
Audio Feedback Formats: MP3 using Smart Graphics, WAV using "traditional" graphics
Amplification: High-efficiency Class-D stereo 2.1 Watts per channel

Connectors

HEADPHONES: (1) 3.5 mm TRS mini phone jack; Stereo headphone output

USB: (3) USB Type A female; USB 2.0 ports for keyboard, mouse, and storage devices

12V 3.5A: (2) 2.5 x 5.5 mm DC power connectors; 12 Volt DC power inputs (power pack included)

Power Requirements

Power Pack: 3.5 Amps @ 12 Volts DC; 100-240 Volts AC, 50/60 Hz power pack included

Environmental

Operating Temperature: 32° to 104°F (0° to 40°C)
Storage Temperature: 14° to 140°F (-10° to 60°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 143 BTU/Hr

Enclosure

Construction: Plastic and metal, stylus storage slot (stylus included), integral fixed-angle tilt base

Dimensions

Height: 6.21 in (158 mm)
Width: 9.69 in (246 mm)
Depth: 8.16 in (207 mm)

Weight

3.2 lb (1.5 kg)

MODELS & ACCESSORIES

Available Models
TPMC-8T-GA: 8.4" TableTop WiFi Touch Screen

Available Accessories
SMK-8T: Swivel Mount Kit
TPMC-8X-DS-CSK: Cable Security Kit
CEN-WAP-ABG-1G: Wall Mount 802.11a/b/g Wireless Access Point
CEN-WAP-ABG-CM: Ceiling Mount 802.11a/b/g Wireless Access Point
CEN-NVS200: Network Video Streamer
SW-VMK-WIN: TouchPoint® Virtual Mouse & Keyboard Software for Windows®

Notes:

1. Item(s) sold separately.
2. Accessing Netflix content requires an active Netflix account. See www.netflix.com for details.
3. H.264 compatible IP camera required.
4. USB mouse/keyboard not included.
5. See specifications for full wireless range details.

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.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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