

# Crestron Isys i/O™ WiFi

## TPMC-10 WiFi Touchpanel



Crestron's incredible Isys i/O TPMC-10 WiFi Touchpanel is a high performance 2-way wireless touchpanel featuring Wi-Fi wireless communications and native capabilities for accessing e-mail, streaming multimedia, and browsing the Internet. A generous 10.4" active-matrix SVGA display and 16-bit color depth combine to produce astounding 3D graphics, dynamic text, full-motion animations, and animated pop-ups.

**Embedded PC**—The power of Isys i/O is in its embedded PC engine, combining rock solid touchpanel performance with built-in Windows Media® Player, Internet Explorer, and MS Inbox, plus viewers for PowerPoint®, Excel, Word, and Adobe® Acrobat® files. Running the Microsoft® Windows® CE .NET operating system behind the scenes, the TPMC-10 enables Internet access while maintaining secure and reliable touchpanel performance. Programmatic application control erases the lines between control system and PC, allowing programmers to customize each application's behavior to create a truly powerful and user-friendly interface.

**Wi-Fi Wireless**—Integrated 802.11g Wi-Fi technology with WEP encryption delivers secure, high-speed 2-way wireless performance across existing wireless LAN's, affording total mobile freedom and seamless communications with Crestron control systems, computers, digital media servers, and other IP-based devices.

**Advanced Ergonomics**—Far more than a mere tablet PC, the TPMC-10 is ingeniously designed to provide a powerful mobile control solution in a compact package that's easy to hold and intuitive to use. The ergonomic shape shifts effortlessly from tabletop to laptop, featuring a sleek contoured base that rests comfortably across one leg. Its smart design achieves an optimal viewing angle under any use, with four programmable hard buttons and an integrated thumbpad to provide tactile control of audio volume, channel selection, OSM navigation, or even pan/tilt cameras.

For text-intensive applications, two onboard USB ports allow the connection of an external mouse and keyboard (sold separately). A VGA output is also provided to enable display of the touchpanel image on a larger monitor or audience display.

**High-Quality Audio**—To complement its incredible graphics and computer capabilities, the TPMC-10 delivers great sounding audio from its built-in high-powered tuned-port speaker system. An integrated microphone and stereo headphone output are also provided.

**Docking Station Option**—Placing the TPMC-10 into the optional docking station provides a convenient charging solution while simultaneously allowing the touchpanel to be operated in an upright position, with additional USB connectivity provided to support a stationary mouse and keyboard (sold separately).

> *10.4" Active Matrix Touchscreen Display*

> *16-bit Isys i/O Graphics Engine*

> *800 x 600 SVGA Resolution*

> *802.11g Wi-Fi Wireless Communications*

> *Embedded PC Applications for Streaming Digital Media, Web Browsing, and e-mail*

> *Versatile Ergonomic Design with Integrated Hard Buttons and Thumbpad*

> *High-Powered Tuned-Port Speaker System*

### SPECIFICATIONS

#### Touchscreen Display

**Display:** TFT Active matrix color LCD

**Size:** 10.4 inch (26.4 cm) diagonal

**Aspect Ratio:** 4:3 SVGA

**Resolution:** 800 x 600 pixels

**Brightness:** 230 nits

**Contrast:** 500:1

**Illumination:** Edgelit fluorescent

**Viewing Angle:** ±60° horizontal, +35/-65° vertical @ >CR10

**Touchscreen:** Resistive membrane

#### Memory

**Internal:** 64 MB Flash, 128 MB SDRAM

Expandable via PCMCIA Card Slot

#### Operating System

Microsoft® Windows® CE .NET 4.2

#### Graphic Engine

Isys i/O engine, 16 Bit non-palette graphics, 65,536 colors, Synapse image rendering algorithm

#### Embedded PC Applications running on CE.NET

Microsoft Internet Explorer, Windows Media® Player, MS Inbox and Wordpad, plus viewers for PowerPoint®, Excel, Word, and Adobe® Acrobat®

#### Wireless Ethernet

**RF Transceiver:** IEEE 802.11g Wi-Fi 2.4 GHz 2-way RF 11/13 channels (2400 to 2483 MHz), DHCP/DNS or static IP, 64 and 128-bit WEP encryption, WPA-ready, EAP pass-thru; requires third-party 802.11b/g wireless access point and Ethernet-enabled Crestron 2-Series control system

**Range:** Up to 328 feet (100m) @54Mbps; transmission speed varies based upon environmental conditions

#### Video

**Formats:** WMV, ASX, ASF, MPG, and AVI through WMP

#### Audio

**Features:** Built-in microphone, 10 watt bi-amplified speakers, stereo headphone output

**Formats:** WMA, MP3, and WAV through WMP

**Audio Feedback (WAV):** 8 & 16 bit PCM, mono & stereo, 8 – 44 kHz sampling rates

#### Buttons

**Function Buttons:** (4) "Softkey" buttons, programmable

**Thumbpad:** (1) 4-way Thumbpad, programmable

**Power:** (1) Toggles power on/off

**Reset:** (1) Hard reset button, reboots the touchpanel

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## LED Indicators

**Communication:** (1) Indicates wireless signal quality  
**Power:** (1) Indicates power/charging status and battery level

## Connectors

**VGA OUT:** (1) mini-VGA port (DB15HD cable included)  
RGBHV (VGA) output  
Aspect Ratio: 4:3 SVGA  
Output Resolution: 800 x 600

**MICROPHONE:** (1) 3.5 mm TRS mini phone jack (not currently implemented)

**HEADPHONES:** (1) 3.5 mm TRS mini phone jack

**USB:** (2) Type A ports for mouse/keyboard and memory devices; (1) Mini B port (not currently implemented)

**PC CARD:** (1) Type II PCMCIA Card slot

**DC POWER:** (1) DC power jack (power supply included)

## Power Requirements

**Battery:** Lithium Polymer 4S1P, 14.8 Volt, 2000 mAh (included)  
**Usage per Charge:** ~4 hours continuous at full brightness  
**Charging Time:** ~2 hours (~4 hours when in use)  
**Power Supply/Charger:** 60 Watts (3.16 Amps @ 19 Volts DC) universal 100~240VAC 50/60Hz power supply included

## Environmental

**Temperature:** 50° to 113°F (10° to 45°C)  
**Humidity:** 10% to 90% RH (non-condensing)

## Enclosure

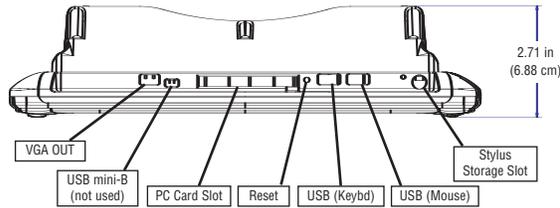
**Construction:** High impact black/silver injection-molded case with integral 20 degree fixed-tilt base; optimized for tabletop, laptop, and handheld use; stylus storage slot (stylus included); integral docking station port

## Dimensions

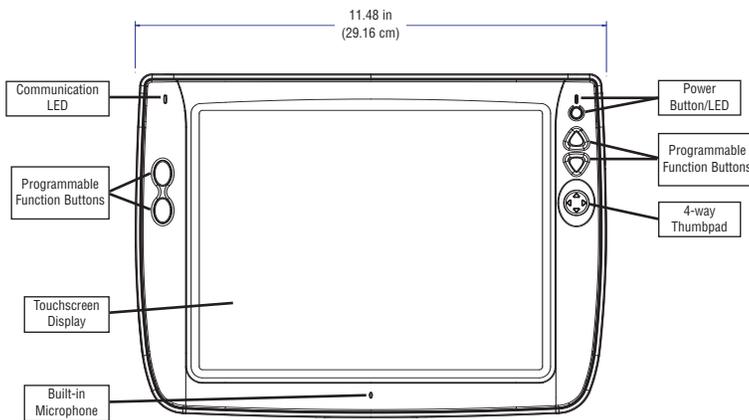
**Height:** 2.71 in (6.88 cm)  
**Width:** 11.48 in (29.16 cm)  
**Depth:** 8.38 in (21.29 cm)

## Weight

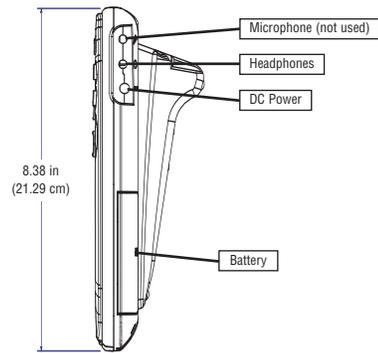
3 lbs (1.36 kg)



Rear View



Top View



Right Side View



TPMC-10 shown with optional TPMC-10-DS Docking Station/Charger (sold separately)

## AVAILABLE ACCESSORIES



**TPMC-10-MSKB**  
USB Mouse & Keyboard



**TPMC-10-DS**  
Docking Station/Charger



**TPMC-10-DSMK**  
Docking Station, Mouse, and Keyboard Package