

TST-1080

10.1 in. Wireless Touch Screen



- *Advanced wireless touch screen with thin tablet design*
- *10.1 in. LED backlit color LCD display*
- *Capacitive touch screen display*
- *Custom-programmable virtual control buttons*
- *Supports Crestron HTML5 User Interface and Crestron Construct™ software custom user projects*
- *Support for XiO Cloud® provisioning and management service*
- *Native app for Crestron Home® OS*
- *Built-in Rava® SIP intercom*
- *Built-in speakers and microphone*
- *Voice recognition capability*
- *H.265, H.264, or MJPEG streaming video display*
- *Built-in web browsing*
- *Multitouch support*
- *Instant-Waking® technology*
- *Wi-Fi® 5 network support at 2.4 and 5 GHz bands*
- *Enterprise-grade security and authentication*
- *Web, cloud, or device-based configuration*
- *Large-capacity Lithium Ion battery pack*
- *Included table dock charges battery while allowing for stationary use*
- *Wall dock option sold separately*

The Crestron® [TST-1080](#) wireless touch screen is an advanced wireless controller, engineered to deliver ultimate performance, reliability, and customization for controlling a wide range of technologies. Its thin, tablet-style design makes it easy to hold and allows it to move effortlessly between portable and stationary use.¹ Its large-capacity, rechargeable battery affords several hours of operation between charges. Support for Wi-Fi® 5 communications and WPA/WPA2 Enterprise encryption assures dependable and secure connectivity throughout a commercial facility or home.

Featuring a high-contrast 10.1 in. capacitive touch screen with Crestron HTML5 User Interface technology, the TST-1080 allows completely customizable control over media presentation and teleconferencing systems, lighting and shades, HVAC, home theater, and a host of other technologies. Additional advanced features include voice commands for controlling touch screen functions, full-motion streaming video from cameras and other sources, Rava® SIP intercom, and an internet browser.^{2,3}

Custom-Programmable Virtual Buttons

The TST-1080 provides a universal status bar that is populated with virtual buttons for quick access to common touch screen functions. The touch screen comes preconfigured with virtual buttons for Power, Home, Lights, Up, Down, and Microphone. Each button can be programmed via a Crestron control system to provide custom functionality, and unused buttons can be hidden individually. The universal status bar is expanded or hidden using simple swipe gestures on touch screen display.

Dynamic User Interfaces

The TST-1080 supports custom user interfaces created with [Crestron HTML5 User Interface](#) and [Crestron Construct™](#) technologies, allowing greater flexibility for UI developers and programmers.

- Crestron HTML5 User Interface enables UI designers to develop rich, front-end user interfaces with increased reusability and efficiency using modern web methodologies. Crestron HTML5 User Interface development tools are provided to simplify creating user interfaces built on standard web technologies.
- Crestron Construct is a cross-platform developer application that enables programmers to create HTML5-based user interfaces within a WYSIWYG (What You See Is What You Get) environment to further simplify UI development.

XiO Cloud Service

The TST-1080 is compatible with the XiO Cloud® service, which is an IoT (Internet of Things) based platform for remotely provisioning, monitoring, and managing Crestron devices across an enterprise or an entire client base. XiO Cloud is built on the Microsoft® Azure® software platform and utilizes Microsoft's industry leading Azure IoT Hub technology. XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit www.crestron.com/xiocloud.

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Crestron Home OS Control

The TST-1080 may be used to control a [Crestron Home® OS](#) whole home solution. Select the Crestron Home app from the touch screen to control lighting, shades, climate, media, security, and cameras, including the ability to create and recall scenes that create a desired ambiance throughout a home. A TST-1080 can be installed in each room to provide easy access to various Crestron Home functions for both the room and the home.

Rava SIP Intercom

[Rava SIP Intercom Technology](#) enables hands-free VoIP communication with other Rava-enabled touch screens and door stations. Rava works over a network connection, supporting 2-way intercom and paging without requiring any special wiring. Built-in echo cancellation affords half-duplex performance for clear, seamless voice communication using the integrated microphone and speakers.²

Voice Recognition

With built-in voice recognition, spoken commands can be issued to the TST-1080 to quickly turn devices on or off, select and play a specific media source, change the channel, choose a lighting scene, lower the window shades, lock the doors, arm the security system, or enter a password. Simply say a command and Crestron does the rest.^{2,3}

Streaming Video

Native support for H.264 and MJPEG formats allows the TST-1080 to display live streaming video from an IP camera, a streaming encoder ([DM-TXRX-100-STR](#) or similar), or a [DigitalMedia™ switcher](#).⁴

Web Browser

Using its built-in web browser, the TST-1080 provides access to online program guides and other web-based services, and it can be used to control DVRs and other devices without having to pick up a separate tablet or smartphone.³

Multitouch Support

The capacitive touch screen display affords enhanced capabilities for browsing web pages using multitouch control.

On-Screen Keyboard

Typing in passwords, URLs, and text searches is facilitated using the on-screen multilanguage keyboard.

Audio Feedback

Customized audio files can be loaded to add another dimension to the touch screen graphics using personalized sounds, button feedback, and voice prompts.

Instant-Waking Technology

The TST-1080 has been engineered with Instant-Waking® technology, where the touch screen display wakes instantly after being touched. Commands are also sent immediately, so spontaneous actions like muting audio, pausing video, or changing a channel can be executed without any waiting.

Wi-Fi Connectivity

The TST-1080 connects to the network over Wi-Fi communications via a local wireless access point (WAP) and delivers high-performing wireless connectivity.

- Support for 802.11ac/b/g/n/ax protocols at 2.4 and 5 Ghz bands affords high-speed wireless performance in almost any environment.
- Advanced wireless capabilities such as streaming video, voice recognition, web browsing, and dynamic graphics are supported. Wi-Fi connectivity supports up to 50 ft (15 m) of omnidirectional coverage indoors.⁵ For Wi-Fi networks with multiple WAPs, the TST-1080 can hand off communication from one access point to another if the active connection is lost.⁶

Enterprise-Grade Security

The TST-1080 is an enterprise-grade touch screen that can be deployed across hundreds of spaces and set up easily using a web browser, Crestron Toolbox™ software, or XiO Cloud. It employs standard network security protocols, including 802.1X network access control, Active Directory® service authentication, SSH, TLS, and HTTPS to ensure reliability and compliance with your organization's IT policies. Additional support for SNMP allows the touch screen to be monitored by your IT administrator.

The TST-1080 is configured to meet Crestron's enhanced security standards right out of the box. The TST-1080 ships with authentication enabled and requires that an administrator account be created before access is granted to device configuration and control interfaces.

Extended Battery Life

The TST-1080 features a large-capacity Lithium Ion battery pack that allows for up to nine hours of continuous operation and several days of typical use between charges. Intelligent power management and Lithium Ion battery technology work together to provide a lightweight, compact battery with long battery life.

Table Dock Charger

The TST-1080 includes a table dock for charging the touch screen's internal battery. The table dock also allows the TST-1080 to be used as a stationary tabletop touch screen. The table dock holds the TST-1080 firmly at a fixed upright angle while docked, and allows it to be taken off at any time for portable use. Its sleek appearance makes it a perfect fit for any home or office.¹

Wall Dock Accessory

The optional [TST-1080-DSW](#) provides a flush mount, in-wall docking solution for the TST-1080. The TST-1080-DSW allows the TST-1080 to be used as a stationary wall mount touch screen that can be converted into a wireless touch screen at any time.⁴

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Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	10.1 in. (257 mm) diagonal
Aspect Ratio	16:10 WUXGA
Resolution	1920 x 1200 pixels
Brightness	350 nits (cd/m ²)
Contrast	800:1
Color Depth	24 bit, 16.7M colors
Illumination	LED backlit
Viewing Angle	+80° horizontal, +80° vertical
Touch Screen	Projected capacitive, 5-point multitouch capable

Controls and Indicators

Reset	(1) Pinhole recessed button on bottom panel for hardware reset and setup initiation
Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per-button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone, optional custom programming via control system for additional functions to existing buttons

Graphics Engine

Crestron HTML5 User Interface technology, multilanguage web browser^{2,3}, multilanguage on-screen keyboard, screensaver, native Crestron Home® OS app, setup and diagnostics via web browser, cloud, or on-screen UI

Languages

Crestron HTML5 User Interface	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, Dutch, English (UK), English (US), Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian, Slovak, Spanish, Swedish, Thai
On-screen Keyboard	Arabic, Chinese (Simplified), Croatian, Czech, Danish, Dutch, English (UK), English (US), Finnish, French (Canada), French (Switzerland), German, Hebrew, Hungarian, Italian, Japanese, Norwegian Bokmal, Polish, Portuguese, Russian, Serbian, Spanish, Swedish, Turkish

Voice Recognition^{2,3}

Afrikaans (South Africa); Chinese, Mandarin (China, Simplified); Chinese, Mandarin (Hong Kong, Simplified); Chinese, Mandarin (Taiwan, Traditional); Chinese, Yue (Hong Kong, Traditional); Czech (Czech Republic); Dutch (Netherlands); English (Australia); English (Canada); English (Generic); English (India); English (New Zealand); English (South Africa); English (UK); English (US); French (France); German (Germany); isiZulu (South Africa); Italian (Italy); Japanese (Japan); Korean (South Korea); Polish (Poland); Portuguese (Brazil); Russian (Russia); Spanish (Spain); Turkish (Turkey)

Web Browser^{2,3}

Arabic, Bulgarian, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Filipino, Finnish, French, German, Greek, Hebrew, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Latvian, Lithuanian, Norwegian Bokmal, Pashto, Persian, Polish, Portuguese, Romanian, Romansh, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkish, Ukrainian, Vietnamese

Memory

RAM	4 GB LPDDR2 SDRAM
Storage	30 GB (user space)
Maximum Project Size	512 MB

Wireless Communications⁶

Transceiver	IEEE 802.11ac/b/g/n/ax Wi-Fi® communications (2.4 and 5 GHz 2-way RF), static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA, WPA2, WPA Enterprise, and WPA2 Enterprise
Range	Up to 50 ft (15 m) typical; Subject to site-specific conditions
Handoff	Supports handoff between a maximum of 4 Wi-Fi access points ⁵
Bluetooth® Hardware	For future integration

Video

Streaming Formats	H.265/H.264 up to 4K at 20 Mbps (MPEG-4 part 10 AVC) or MJPEG, up to 1280x720@30 fps ³
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Audio

Features	Built-in microphone and speakers, Rava® SIP intercom, multilanguage voice recognition ^{2,3}
Audio Feedback Formats	MP3

Connectors

Docking Connector	(3) Contacts; Mates with docking port on included TST-1080-DS docking station ¹
USB	(1) Type-C USB port; For charging touch screen battery

Power

Rechargeable Battery	Li-Ion, 3.8V, 10400 mAh
Usage per Charge	120 hours typical under normal use (10% active duty cycle with standby/power down turned on); 9 hours continuous when using default settings
Charging Time	Up to 6 hours (typical)
Power Pack (Included)	Input: 0.8A (maximum) @ 100–240VAC, 50/60 Hz; Output: 1.25A @ 24VDC; DC power connection can be made via charging dock; Includes 6 ft (1.83 m) attached cable with 2.1 x 5.5 mm DC power barrel connector and universal blade kit to accommodate most AC outlet types
USB Power Consumption	Input: 9VDC, 3A (maximum) 6 W

Environmental

Temperature	32° to 112°F (0° to 45°C); 50° to 104°F (10° to 40°C) while charging
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	20.5 BTU/hr

Construction

Plastic, integral docking port

Dimensions

Height	6.42 in. (163 mm)
Width	10.32 in. (262 mm)
Depth	0.53 in. (14 mm)

Weight

1.7 lb (780 g)

Compliance

Regulatory Model: M202215001;
IC, CE, FCC Part 15 Class B digital device

To search for product certificates, refer to support.crestron.com/app/certificates.

Model

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Included Accessories

TST-1080-DS
Table Dock for TST-1080
(Qty. 1 included)

Available Accessories

For a list of available accessories, visit the [TST-1080](#) product page.

Notes:

1. The TST-1080 ships with one [TST-1080-DS](#) table dock included. Additional table docks, or the [TST-1080-DSW](#) wall dock, may be ordered separately.
2. Voice recognition, web browsing, weather information, Rava® SIP intercom, and certain other functions require an internet connection via Wi-Fi® communications.
3. Voice recognition, streaming video, web browsing, and dynamic graphics capabilities require Wi-Fi communications to be functional.
4. Item(s) sold separately.
5. Wireless range subject to site-specific conditions.
6. Wi-Fi handoff capability enables automatic handoff between up to four predesignated Wi-Fi wireless access points (WAPs). The last successful Wi-Fi connection is maintained indefinitely until that connection is lost, at which point communication is handed off to the nearest available WAP. A very brief interruption to wireless Ethernet communication may occur during the handoff.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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