

TSS-470E-B-T

3.5 in. Desk Scheduling Touch Screen, Black Textured



- *Touch screen designed specifically for desk scheduling applications*
- *Room mode provides room scheduling functionality for ancillary spaces*
- *Integrates directly with various third-party scheduling apps*
- *3.5 in. (89 mm) capacitive touch screen display*
- *Setup and scheduling via XiO Cloud® provisioning and management service*
- *Integrated light bar illuminates green, amber, or red to indicate desk availability with support for custom colors*
- *Powered via PoE or power pack (sold separately)*
- *Ethernet and Wi-Fi® network connectivity*
- *Enterprise-grade security and authentication*
- *Wall and surface, tabletop, or multisurface mounting options available separately*
- *Black textured finish*

The Crestron® [TSS-470E-B-T](#) touch screen is designed to enhance and simplify desk scheduling across an enterprise. The TSS-470E-B-T can be installed within a hoteling space to provide a clear indication of its availability and schedule. Room mode provides room scheduling functionality for ancillary spaces where shorter bookings are more common. The TSS-470E-B-T also integrates seamlessly with a variety of popular third-party scheduling applications.

The TSS-470E-B-T is an enterprise-grade device engineered to meet all the demands of a corporate office, conference center, or higher education environment. Its 3.5 in. (89 mm) capacitive display provides an intuitive user interface dedicated for scheduling hoteling spaces and viewing essential reservation details.

Crestron Scheduling App

The native Crestron Scheduling App helps organizations to maximize productivity and manage usage for every hoteling space. Desk usage can be scheduled in advance using a computer that is connected to the scheduling calendar resource, or available desks can be booked on the spot for ad hoc usage. The desk schedule is displayed on the touch screen UI to prevent booking conflicts and to indicate when the desk is available. The Crestron Scheduling App can also be configured with custom settings for no shows, early reservation check-ins, and more.¹

Running the Crestron Scheduling App, the TSS-470E-B-T integrates directly with the XiO Cloud® service and Microsoft 365® software.

Room Scheduling Mode

The Crestron Scheduling App provides a room scheduling mode that is optimized for use in ancillary spaces, such as huddle rooms or phone booths, where shorter bookings are more common. Room mode provides similar functionality to desk scheduling mode, including integration with the XiO Cloud service and Microsoft 365 software. A timeline view is provided on the touch screen UI to easily view the room availability for the day. Ad hoc bookings are scheduled to the next top or bottom of the hour, with the ability to extend the reservation in half hour increments.

Third-Party Scheduling Apps

The TSS-470E-B-T includes support for various third-party scheduling applications. New providers are made available via firmware updates. Whatever provider you choose, setup is as simple as connecting the touch screen to the network and choosing an app from XiO Cloud or the device's web configuration interface. The selected app downloads from the cloud and installs on the touch screen without any programming or control system required.^{1,2,3}

XiO Cloud Service

The TSS-470E-B-T 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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Integrated Light Bar

The TSS-470E-B-T provides an integrated light bar that gives visual indication of a space's availability as part of a complete enterprise scheduling solution. The light bar illuminates bright green, amber, or red to indicate the space availability. The illumination color is controlled by the scheduling application, which runs on the TSS-470E-B-T and syncs with the scheduling calendar. For custom applications, the light bar can be configured to illuminate in almost any desired color. The light bar features tricolor RGB LEDs that allow for a full spectrum of colors by blending the red, green, and blue elements.

Power over Ethernet

Using PoE technology, the TSS-470E-B-T gets its operating power directly through a network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. [Crestron PoE switches](#) offer a total networking solution with built-in PoE for multiple touch screens.⁴

For applications where PoE is not possible or desired, the TSS-470E-B-T can also be powered via a local 24VDC power supply ([PW-2407WU](#)).⁴

Wired and Wi-Fi Connectivity

An Ethernet LAN connection is all that is required to wire the TSS-470E-B-T, containing all control and power signals within a single cable.

For deployments without access to Ethernet, the touch screen can also be connected to the network over Wi-Fi® communications via a local wireless access point (WAP).

- Support for 802.11a/b/g/n/ac protocols at 2.4 and 5 Ghz bands affords high-speed wireless performance in many environments.⁵
- Wi-Fi connectivity supports up to 45 ft (13.7 m) (typical) of omnidirectional coverage indoors. For Wi-Fi networks with multiple WAPs, the TSS-470E-B-T can hand off communication from one access point to another if the active connection is lost.⁶

Enterprise-Grade Security

The TSS-470E-B-T is an enterprise-grade touch screen that can be deployed across hundreds of spaces and set up easily using a web browser or XiO Cloud. It employs standard network security protocols, including 802.1X network access control, 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 TSS-470E-B-T is configured to meet Crestron's enhanced security standards right out of the box. The TSS-470E-B-T ships with authentication enabled and requires that an administrator account be created before access is granted to most device configuration and control interfaces.

Mounting Accessories

The TSS-470E-B-T supports numerous mounting accessories that allow the touch screen to be installed in various scheduling spaces. Security screws are provided with each mounting accessory to prevent unauthorized removal of the touch screen.

NOTE: The TSS-470E-B-T does not ship with any mounting accessories included. One of the following mounting accessories must be purchased per touch screen.

- The [TSS-470E-MSMK-B-T](#) multisurface mount kit allows the touch screen to be mounted directly to virtually any flat surface, making it ideal for mounting at the entrance of a hoteling space for scheduling applications.⁴
- The [TSS-470E-TTK-B-T](#) tabletop kit provides a stylish tabletop enclosure for the touch screen that can be placed within a hoteling space or on a shared desk.⁴
- The [TSS-470E-WMK](#) wall mount kit allows the touch screen to be installed easily into existing drywall, paneling, tabletop surfaces for postconstruction applications.⁴

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Specifications

Touch Screen Display

| | |
|---------------------|----------------------------|
| Display Type | Transflective LCD, backlit |
| Size | 3.5 in. (89 mm) diagonal |
| Resolution | 480 x 320 pixels |

Controls and Indicators

| | |
|------------------|--|
| Reset | (1) Recessed push button on rear panel for hardware reset |
| Light Bar | (1) LED light bar; Supports alternating green/amber/red indication of desk or room availability; Supports custom color selection for availability states |

Graphics Engine

On-screen keyboard, native desk scheduling application, setup and diagnostics via XiO Cloud, web browser, or on-screen UI

Scheduling Support

| | |
|--------------------------------|---|
| Crestron Scheduling App | Microsoft 365® software |
| Third-Party Apps | Includes support for various third-party scheduling applications ^{1,2,3} |

Languages

| | |
|-----------------------------------|---|
| User Interface (Desk Mode) | Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Croatian, Danish, Dutch, English (UK), English (US), Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Portuguese (Portugal), Romanian, Russian, Spanish, Slovak, Swedish, Thai, Turkish, Ukrainian |
| User Interface (Room Mode) | Chinese (Simplified), Chinese (Traditional), English (US), German, French, Italian, Hebrew, Japanese, Norwegian, Spanish, Swedish |

Memory

| | |
|----------------|--------------|
| RAM | 1 GB |
| Storage | 8 GB SD Card |

Wired Communications

| | |
|-----------------|--|
| Ethernet | 100/1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP, IEEE 802.1X, SNMP, NTP, IPv4, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3at compliant |
| USB | USB 2.0 host |

Wireless Communications

| | |
|--------------------|---|
| Transceiver | IEEE 802.11a/b/g/n/ac Wi-Fi® communications (2.4 or 5 GHz 2-way RF), static IP or dynamic IP via DHCP |
| Security | 64 and 128-bit WEP, WPA, WPA2-PSK with TKIP and AES, and WPA2 Enterprise |
| Range | Up to 45 ft (13.7 m) typical ⁵ |

Connectors

| | |
|------------------|--|
| LAN PoE | (1) 8-pin RJ-45 connector, female, with 2 LED indicators; 100BASE-TX/1000BASE-T Ethernet port; Power over Ethernet (PoE) compliant; Green and yellow LEDs indicate Ethernet port status |
| 24V 0.75A | (1) 2.1 x 5.5 mm DC power connector; 24VDC power input; PW-2407WU model power pack ⁴ |
| USB C | (1) USB Type-C® connector, female; USB 2.0 host port; For future use with supported Crestron accessories |

Power

| | |
|----------------------------------|---|
| PoE (Power over Ethernet) | IEEE 802.3at Type 1 Class 2 (6.49 W) compliant, Compatible with IEEE 802.3at compliant Ethernet switch or third-party PoE-compliant PSE |
| Power Pack | Input: 100–240VAC, 50/60 Hz; Output: 0.75A @ 24VDC; Model: PW-2407WU ⁴ |
| Power Consumption | 3 W (typical) |

Environmental

| | |
|--------------------|-------------------------------|
| Temperature | 32 to 104°F (0 to 40°C) |
| Humidity | 10% to 90% RH (noncondensing) |

Construction

| | |
|----------------|--|
| Housing | Plastic, textured black finish, edge-to-edge glass with black surround |
|----------------|--|

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Mounting Wall and surface mount, table top mount, and multisurface mount options available⁴

Dimensions

Height 3.95 in. (100 mm)

Width 3.95 in. (100 mm)

Depth 1.33 in. (34 mm)

Dimensions do not include any mounting accessories

Weight

5.4 oz (155 g)

Compliance

Regulatory Model: M202138001

FCC Part 15 Class B digital device, IC, CE, Intertek® Listed for US & Canada

Model

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Available Accessories

For a list of available accessories, visit the [TSS-470E-B-T](#) product page.

Notes:

1. Actual functionality and on-screen appearance varies based on which scheduling app is in use and how the app is set up. The functionality described in this spec sheet generally refers to the Crestron Scheduling app. Each third-party provider determines the functionality and appearance of their respective app. Refer to each provider's website for more information.
2. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
3. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third-party apps typically run on the TSS-470E as they do on a tablet device. The TSS-470E runs only one app at a time, which is selected using the XiO Cloud® service or the web configuration interface. Only the apps approved and delivered by Crestron can run on the TSS-470E. The TSS-470E cannot be interfaced with a control system and cannot be custom programmed for any other functionality. An internet connection is required.
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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Rev 06/12/24

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