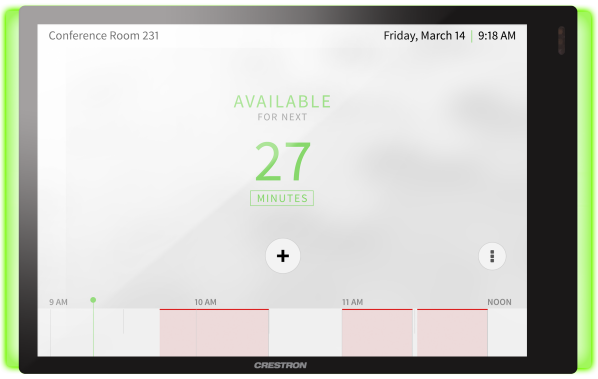
TSS-770-LB KIT

7 in. Room Scheduling Touch Screen with TSW-770-LB Light Bar



- *Next generation wall mount touch screen designed specifically for enterprise room scheduling applications*
- *Delivers a superior and cost-effective alternative to consumer tablet devices*
- *Integrates directly with various room scheduling services*
- *7 in. (178 mm) widescreen capacitive touch screen display*
- *Standard U.S., U.K., and European electrical box installation with additional mounting options available*
- *Single wire Ethernet connection with PoE or PoE+ power*
- *Wi-Fi® network connectivity*
- *Dual USB 2.0 ports for room availability accessories*
- *Enterprise grade security and authentication*
- *Choice of white or black smooth finish*
- *Includes one TSW-770-LB series light bar*

Crestron® TSS-770 series touch screens are designed to enhance and simplify room scheduling across an enterprise. The TSS-770 installs near the entrance of a meeting room or huddle space to provide a clear indication of the room availability and schedule, and it integrates seamlessly with a variety of popular scheduling services.

The TSS-770-LB KIT includes one TSW-770-LB series room availability light bar with the touch screen, providing for a complete room scheduling solution out of the box.

Crestron Room Scheduling App

The native Crestron Scheduling app helps organizations to maximize productivity and manage usage for every meeting space. If desired, the room can be reserved on the spot for an ad hoc meeting. A CEN-ODT-C-POE occupancy sensor (sold separately) can also be paired to the touch screen, allowing for occupancy status to be reported instantly to the scheduling app for no-shows and unscheduled room usage.[1]

Crestron room scheduling also offers three levels of customization—ranging from simply configuring settings in the web user interface to modifying the application source code for a completely unique appearance—depending on the needs of an enterprise.

Running the Crestron Scheduling App, the TSS-770 integrates directly with Crestron Fusion® software, Microsoft Exchange Server® software (for users of Outlook® software and Office 365® software), the Google Calendar™ calendaring app (including G Suite™ software), CollegeNET® 25Live® scheduling software, or Ad Astra® software. IBM® Notes® software is also supported through a Crestron Fusion on-premises server.

Third-Party Scheduling Apps

The TSS-770 includes support 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 the web-based setup menu or built-in setup screens. The selected app downloads from the cloud and installs on the touch screen without any programming or control system required.[1,2,3]

Built for Enterprise Scheduling Applications

The TSS-770 is an enterprise-grade device engineered to meet all the demands of a corporate office, conference center, or higher education environment. Its 7 in. (178 mm) capacitive display provides an intuitive user interface dedicated for scheduling rooms and viewing essential meeting details. The UI can be customized and branded with your choice of background images and logos. A larger 10.1 in. (257 mm) version (TSS-1070 series) is also available.[1]

- **Functional**: The TSS-770 provides everything needed for scheduling applications in one compact unit that mounts over a standard electrical box or cutout. The TSS-770 offers high-speed Ethernet and PoE/PoE+ connectivity, or, for deployments without access to Ethernet, it can be connected the network over Wi-Fi® communications via a local wireless access point (WAP).
- **Versatile**: Crestron offers a variety of mounting options for mounting the TSS-770 to drywall, masonry, glass, mullions, and other surfaces. Optional light bar and hallway sign accessories are available to increase the visibility of the room availability status.
- **Reliable**: Consumer tablets are meant for mobile handheld use and not permanent installs. By contrast, Crestron touch screens are purpose-built for permanent installation and years of reliable 24/7 operation in a commercial environment. To ensure the touch screen is using the latest features, the TSS-770 checks nightly for app updates and loads the latest version automatically.
- **Secure**: Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, TLS encryption, HTTPS connectivity, and Active Directory® service integration. These features protect your network against service interruptions and malicious intrusions and ensure compliance with your organization's network policies.

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TSS-770-LB KIT

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- **Manageable**: Crestron touch screens feature cloud-based provisioning and management to streamline the process of configuring and monitoring every touch screen on the network and keeping them updated. They also support SNMP, so they can be monitored by your IT administrator alongside every other device on the network.
- **Cost-Effective**: Crestron touch screens offer clear advantages over other alternatives, but that doesn't mean they cost more. The TSS-770 series delivers a comparable or lower cost solution compared to buying tablets with all the extra peripherals and maintenance they require.

Status Indicator Options

The TSS-770 provides dual high-speed USB 2.0 ports for connecting Crestron room scheduling accessories (sold separately) to the touch screen that enhance an enterprise room scheduling solution.

- The included TSW-770-LB series light bar provides a 180° visual indication of a room's availability status, illuminating green if the room is available and red when reserved, with options for custom color mixing and programming.[4]
- The SSW, SSW-EL, SSC, and SSC-EL series hallway signs feature a two sided acrylic sign face that can be custom engraved with the room name or number. The SIW-100 offers a lower profile wall mount status indicator.[4]

Bluetooth Beacon

The built-in Bluetooth® proximity detection beacon enhances a room scheduling solution by enabling a smartphone or tablet device to always know what room it is in. It works with the Crestron Go App and Crestron App to determine when the mobile device is in or near the same room as the beacon, and signals the mobile app to automatically display the appropriate controls and information for the room.[5]

Proximity Sensor and Brightness Controls

The TSS-770 provides a built-in proximity sensor wakes the screen without requiring any user interaction, and automatic brightness controls ensure optimal visibility under varying lighting conditions.

Power over Ethernet

Using PoE technology, the TSS-770 gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches (CEN-SW-POE-5 or CEN-SWPOE-16, sold separately) offer a total networking solution with built-in PoE for multiple touch screens. A PoE Injector (PWE-4803RU, sold separately) is also available to support a single touch screen.

NOTE: Refer to the "Power" specifications for more details.

XiO Cloud Service

The TSS-770 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. Built on the Microsoft® Azure® software platform and utilizing Microsoft's industry-leading Azure IoT Hub technology, Crestron XiO Cloud enables installers and IT managers to deploy and manage thousands of devices in the time it previously took to manage just one. 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.

Wall Mount Options

Using the bracket provided, the TSS-770 is easily installed over a 2-gang or 3-gang US electrical box, or a 2-gang European or UK electrical box. A security latch option is included to deter unauthorized removal of the touch screen.

Additional wall mounting options are afforded using the optional TSW-UMB-70 universal mounting bracket, TSW-UMB-70-PMK preconstruction mounting kit, and TSW-UMB-70-BBI back box (sold separately).[6]

Optional Mounting Accessories

The TSS-770 supports numerous optional mounting accessories (sold separately) that allow the touch screen to be installed in all kinds of installations:

- The TSW-770-MSMK multisurface mount kit allows a TSS-770 touch screen to be mounted directly to virtually any flat surface, which is ideal for mounting at the entrance to a meeting space for room scheduling applications.
- The TSW-770/1070-MUMK allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.
- The TSW-770/1070-RMB-1and TSW-770/1070-RMB-2 retrofit mounting brackets allow for retrofit installations in place of an older Crestron touch screen (APAD, CT-1000, LC-1000, TPS-4L, or TPS-2000L) without having to tear out the old mounting hardware or patch the wall.
- The TSW-770-FP face plate hides the electrical box from view when replacing a TSW-760 or TSS-7 series touch screen with a TSS-770 series touch screen.
- Thought not typical for most scheduling applications, the TSW-570/770-RMK-1 rack mount kit can be used to mount the touch screen into a 19 in. rack. When installed, the touch screen occupies three rack spaces.

TSS-770-LB KIT

7 in. Room Scheduling Touch Screen with TSW-770-LB Light Bar

Specifications

Room Scheduling Support

Crestron Scheduling App	Crestron Fusion® software, Microsoft Exchange Server® and Office 365® software, Google Calendar™ calendaring app and G Suite™ software, CollegeNET® 25Live® software, and Ad Astra™ software (IBM® Notes® software is also supported through Crestron Fusion on-premises server only)
Third-Party Apps	Includes support for various third-party scheduling apps[1,2,3]

Languages

Crestron Fusion	Chinese (Simplified), Chinese (Traditional), Danish, Dutch (Netherlands), English (US), English (UK), French, German, Hebrew, Italian, Japanese, Korean, Norwegian, Portuguese (Brazil), Portuguese (Portugal), Russian, Spanish, Swedish

Wired Communications

Ethernet	100 Mbps, auto switching, auto negotiating, auto discovery, full/half duplex, TCP/IP, UDP/IP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, HTTPS, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3at compliant
USB	USB 2.0 host for light bar or hallway sign[4]

Wireless Communications

Transceiver	IEEE 802.11a/b/g/n/ac Wi-Fi (2.4 or 5 GHz 2-way RF), static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA and WPA2-PSK with TKIP and AES
Range	Up to 50 ft (15 m), subject to site-specific conditions
Gateway	Requires an 802.11a/b/g/n/ac wireless access point and Ethernet-enabled Crestron control system
Bluetooth® Hardware	Crestron Bluetooth beacon[5]

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	7 in. (178 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1280 x 800 pixels
Brightness	350 nits (cd/m^2)
Contrast	850:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5-point multitouch capable

Buttons

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
Reset	Pin hole on rear panel for hardware reset

Audio

Features	Built-in speakers for touch feedback and alerts

Connectors

LAN PoE	(1) 8-pin RJ45 connector, female, with 2 LED indicators; 100BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(2) USB Type A connectors, female; USB 2.0 host ports; For optional room scheduling accessories

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 15 W from an 802.3at Type 2 PSE with LLDP advanced power management; Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1) PSE

Environmental

Temperature	32 to 104 °F (0 to 40 °C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

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TSS-770-LB KIT

7 in. Room Scheduling Touch Screen with TSW-770-LB Light Bar

Construction

Housing	Plastic, smooth black or white finish, edge-to-edge glass with black or white surround
Mounting	Surface mount over a 2 or 3-gang US electrical box, 2-gang European (DIN 49073) electrical box, or 2-gang UK (BS 4662) electrical box; Lectern mount over a 2 in. H x 3-3/4 in. W (51 mm H x 96 mm W) cutout; 1-3/8 in. (35 mm) minimum mounting depth; Wall mount, surface mount, and rack options available separately

Dimensions

Height	4.17 in. (106 mm)
Width	6.80 in. (173 mm)
Depth	1.99 in. (51 mm)

Dimensions do not include the mounting bracket or add-on accessories

Weight

14.11 oz (400 g)

Compliance

Regulatory Model: M201923002

IC, CE, FCC Part 15 Class B digital device

Models

TSS-770-B-S-LB KIT
7 in. Room Scheduling Touch Screen, Black Smooth, includes one TSW-770-LB-B-S light bar

TSS-770-W-S-LB KIT
7 in. Room Scheduling Touch Screen, White Smooth, includes one TSW-770-LB-W-S light bar

Included Accessories

TSW-770-B-S-LB
Room Availability Light Bar for TSW-770, Black Smooth
Qty 1 Included with TSS-770-B-S-LB KIT

TSW-770-W-S-LB
Room Availability Light Bar for TSW-770, White Smooth
Qty 1 Included with TSS-770-W-S-LB KIT

Available Accessories

SIW-100
Room Availability Status Indicator, Wall Mount

SSC-100
Room Availability Hallway Sign, Ceiling Mount, Without Engraving

SSC-102
Room Availability Hallway Sign, Ceiling Mount, Includes Custom Engraving

SSC-100-EL
Room Availability Hallway Sign, Ceiling Mount, Enhanced Legibility, Without Engraving

SSC-102-EL
Room Availability Hallway Sign, Ceiling Mount, Enhanced Legibility, Includes Custom Engraving

SSW-100
Room Availability Hallway Sign, Wall Mount, Without Engraving

SSW-102
Room Availability Hallway Sign, Wall Mount, Includes Custom Engraving

SSW-100-EL
Room Availability Hallway Sign, Wall Mount, Enhanced Legibility, Without Engraving

SSW-102-EL
Room Availability Hallway Sign, Wall Mount, Enhanced Legibility, Includes Custom Engraving

TSW-UMB-70
Universal Mounting Bracket for TSW-70 Series

TSW-UMB-70-PMK
Preconstruction Mounting Kit for TSW-UMB-70

TSW-UMB-70-BBI
Wall Mount Back Box for TSW-70 Series

TSW-770-MSMK-B-S
Multisurface Mount Kit for TSW-770, Black Smooth

TSW-770-MSMK-W-S
Multisurface Mount Kit for TSW-770, White Smooth

TSW-770/1070-MUMK-B
Mullion Mount Kit for TSW-770 and TSW-1070, Black

TSW-770/1070-MUMK-W
Mullion Mount Kit for TSW-770 and TSW-1070, White

TSW-770/1070-RMB-1
Retrofit Mounting Bracket - Converts APAD, CT/LC-1000, or TPS-2000L to TSW-770 or TSW-1070

TSW-770/1070-RMB-2
Retrofit Mounting Bracket - Converts TPS-4L to TSW-770 or TSW-1070

TSW-570/1070-RMK-1
Rack Mount Kit for TSW-570 and TSW-770

TSW-770-FP-B-S
Face Plate, Black Smooth - Converts TSW-760 to TSW-770

TSW-770-FP-W-S
Face Plate, White Smooth - Converts TSW-760 to TSW-770

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CEN-ODT-C-POE
Dual-Technology Occupancy Sensor, PoE, 2,000 Sq Ft

CEN-SW-POE-5
5-Port PoE Switch

CEN-SWPOE-16
16-Port Managed PoE Switch

PWE-4803RU
PoE Injector

SW-FUSION-C-3
Crestron Fusion® Cloud; 250 rooms; 3-year service, support, and updates

SW-FUSION-P-L
Crestron Fusion® On-premises; Unlimited rooms; lifetime service, support, and updates

SW-HS-1-C
Crestron Fusion® Cloud Room Scheduling; 1-year service, support, and updates for one touch screen

SW-HS-1-P
Crestron Fusion® On-premises Room Scheduling; 1-year service, support, and updates for one touch screen

SW-HS-3-C
Crestron Fusion® Cloud Room Scheduling; 3-year service, support, and updates for one touch screen

SW-HS-3-P
Crestron Fusion® On-premises Room Scheduling; 3-year service, support, and updates for one touch screen

SW-HS-L-C
Crestron Fusion® Cloud Room Scheduling; lifetime service, support, and updates for one touch screen

SW-HS-L-P
Crestron Fusion® On-premises Room Scheduling; lifetime service, support, and updates for one touch screen

SW-XIOC-EM
XiO Cloud® Provisioning and Management Service, Endpoint Management License for one room

SW-XIOC-S
XiO Cloud® Provisioning and Management Service, Support License for one room

SW-XIOC-API
XiO Cloud® Provisioning and Management Service, REST API License for one room

Notes:

1. Actual functionality and onscreen 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-770 as they do on a tablet device. The TSS-770 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSS-770. The TSS-770 cannot be interfaced with a control system and cannot be custom programmed for any other functionality. An internet connection is required.
4. The TSS-770 may be powered by either a PoE or PoE+ power source when a light bar or hallway sign is connected. Refer to the Accessories section for a list of all available options. Refer to each accessory's spec sheet for further information.
5. The TSS-770 provides an integrated, equivalent alternative to the standalone PP-100-W beacon. For more details, refer to the PP-100-W spec sheet. Bluetooth technology is used solely for proximity detection and does not transmit or receive any control, multimedia, or personal data. Crestron Bluetooth beacons are only visible to Bluetooth enabled devices that are specifically programmed and configured to work with them.
6. The TSW-UMB-70 is also compatible with older TSW-UMB-PMK series preconstruction mounting kits and TSW-BBI series back boxes, allowing the TSS-770 to be installed in place of a previous generation touch screen.

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 by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

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

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TSS-770-LB KIT

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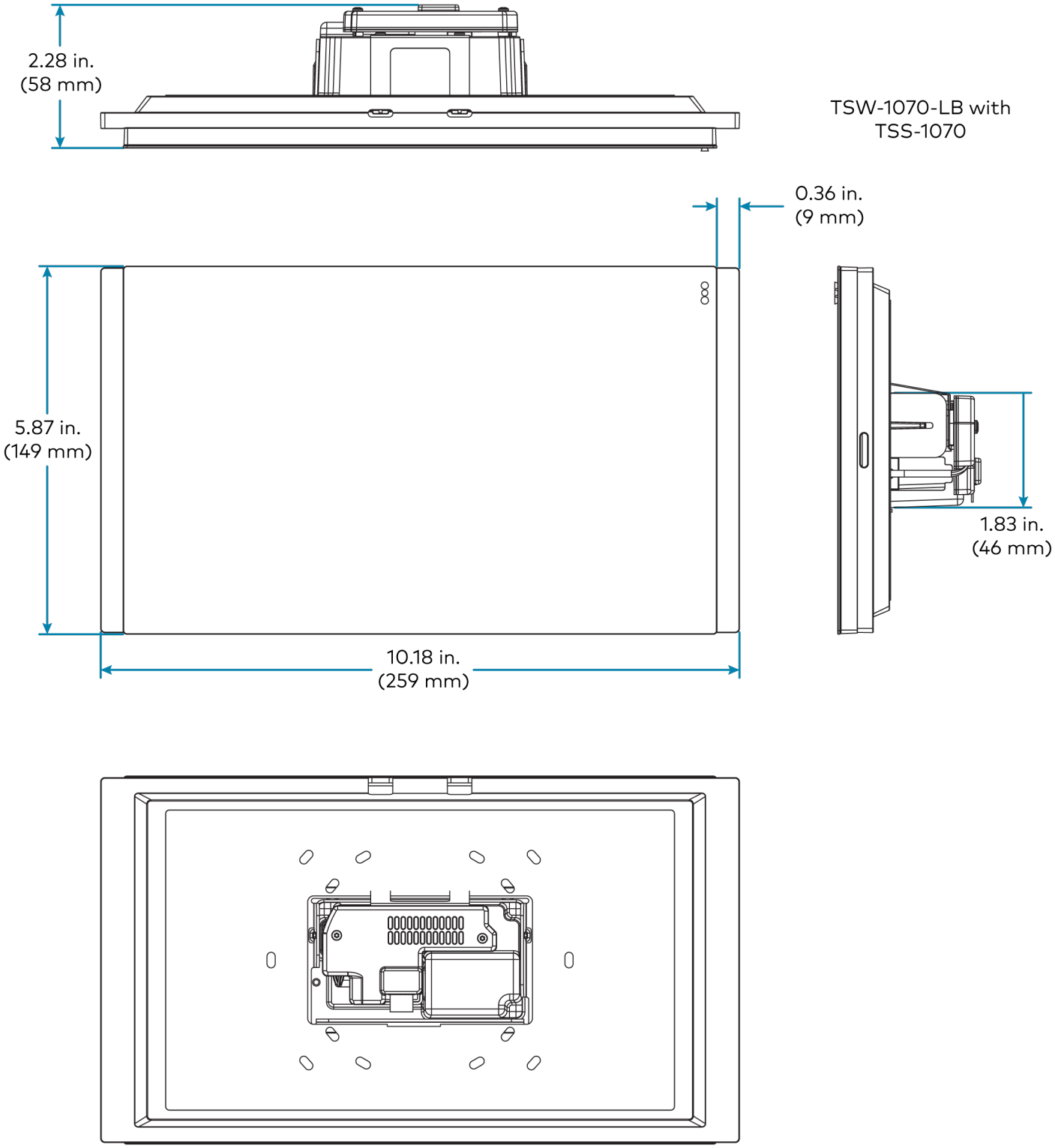

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