UC-B140-T

Crestron Flex Wall Mount UC Video Conference System for Microsoft Teams® Rooms

- *Front-of-room video conferencing solution for Microsoft Teams® software*
- *Present, call, conference, and collaborate — all through a single smart soundbar and 10.1 in. tabletop touch screen*
- *Native Microsoft Teams touch screen UI provides a consistent user experience with simple operation and one-touch meeting joins*
- *Easy to specify and install — no custom design, programming, or software installation required*
- *Network management and provisioning, system alerts, and the pairing of a touch screen to the UC-B140-T system's UC Engine through the Crestron XiO Cloud™ service*
- *Microsoft® Exchange and Office 365® integration with native Microsoft Teams or Skype® for Business software support*
- *Connects and communicates securely over any enterprise or SMB network*
- *Enterprise-grade security*
- *Direct connection option for simple installation and configuration*
- *Supports single display configuration*
- *High-powered 2-way stereo speaker smart soundbar with 180° far-field adaptive beamforming microphone array, advanced AEC & DSP technology, integrated high-definition USB camera with lossless digital autozoom and HDMI® input for laptop and other AV content sources*
- *Includes 10.1 in. (257 mm) tabletop color touch screen with onscreen calendaring and meeting management and optional control of room lighting, shades, thermostats, and other equipment*
- *Kit contains the Crestron® smart soundbar & camera, touch screen, UC Engine assembly, and power supplies*

The Crestron Flex UC-B140-T system provides a video conference room solution for use with the Microsoft Teams intelligent communications platform. It supports a single video display, and features the Crestron UC Video Conference Smart Soundbar & Camera (UC-SB1-CAM-FLEX), 10.1 in. touch screen, and UC Engine Assembly with UC-ENGINE-SD.

Native Microsoft Teams® Software Experience

The UC-B140-T system brings the full Microsoft Teams UC experience to any meeting space in an enterprise or SMB facility, whether implementing a cloud based Microsoft Teams deployment, on-premises Skype® for Business software, or a hybrid of the two.

Crestron® Smart Soundbar & Camera

The UC-SB1-CAM-FLEX soundbar eliminates the need to install additional cameras, microphones or speakers. Its high-powered stereo speakers, adaptive beamforming microphone, and advanced digital signal processing deliver exceptional full-duplex, echo-free speakerphone performance. Wideband audio codec support allows for full-spectrum, bidirectional voice communication. Its compact design reduces clutter on the conference table, and even accommodates rooms with no table at all.

The soundbar's integrated Huddly IQ™ camera features an ultra wide-angle 150° diagonal field of view to capture an entire conference room in Full HD 1080p video resolution. Genius Framing digital autozoom intelligently detects the people in the room and frames them perfectly for an optimal view. With Genius Framing, there's no need to control the camera manually or rely on stored presets.

For more information, refer to the UC-SB1-CAM-FLEX product page.

10.1 in. Touch Screen

The Crestron TSW-1060 series touch screen makes an elegant statement on any tabletop. PoE (Power over Ethernet) connectivity and a range of mounting options make installation simple for both new and retrofit applications.

The included TSW-1060-TTK provides a convenient tabletop enclosure for the TSW-1060 touch screen. The touch screen is angled when installed in the enclosure. The complete assembly may be placed on any flat, level surface. Wiring may be passed out the rear of the enclosure through a grommet and strain relief, or routed through the bottom for a very clean, cordless appearance. The touch screen also offers optional control of room lighting, shades, thermostats, and other equipment.[1]

For more information, refer to the TSW-1060-B-S and TSW-1060-TTK-B-S product pages.

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UC Engine Assembly

All the capabilities of a complete Microsoft Teams video conferencing and content sharing solution are empowered by the UC Engine. For ultimate performance, Crestron employs a powerful Intel® NUC Mini PC running Microsoft® software. The UC Engine Assembly (UC-BRKT-100-SD-ASSY) streamlines the installation of a Crestron UC system by assembling the UC-ENGINE-SD, HD-CONV-USB-200, and UC-CONN-HD together on one convenient and ready-to-mount bracket.

The complete assembly can be mounted on the wall, or it can be attached to the rear of the display device. Attachment to the display is accomplished using two of the four bolts that also affix the display to a VESA® compliant display mount. The assembly bracket includes mounting holes on its left and right side edges, spaced at 100 mm (3.94 in.), 200 mm (7.87 in.), and 300 mm (11.81 in.) vertically, to allow for attachment to either side of the display mounting plate on the rear of the display device.

For more information, refer to the UC-BRKT-100-SD-ASSY product page.

Network Management and Security

Crestron Flex is an enterprise grade solution, engineered in partnership with Microsoft to integrate seamlessly into any Microsoft Teams or Skype for Business deployment. Crestron Flex is ideally equipped for mass deployment throughout any sized corporate, university, medical, military, or government facility.

IoT cloud based provisioning enables complete network configuration in advance of hardware delivery, with touchless updates following installation via Windows® Update. Crestron Fusion® or Crestron XiO Cloud management enables monitoring and logging of room and equipment usage, as well as centralized help desk support. Advanced security features ensure privacy, reliability, and compliance with your organization's IT policies.

Crestron XiO Cloud™ Provisioning and Management Service

The UC-B140-T is compatible with the Crestron 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.[2] The service enables installers and IT managers to deploy and manage thousands of devices in the amount of time it would ordinarily take to manage just one. As part of the UC-B140-T system, the Crestron XiO Cloud service allows for network management and provisioning, system alerts, and the pairing of a touch screen to the UC-B140-T system's UC Engine. System updates are controlled by Windows Update. For more information, visit www.crestron.com/xiocloud.

Direct Connection

Crestron's direct connection method simplifies installation and configuration with a single connection from the touch screen to the UC-ENGINE-SD.[3] This method accelerates deployment, ensures reliability, and provides long-term service while eliminating network setup dependencies related to hardware and security requirements.

Dual Control Option

A Crestron Mercury device or another TSW-1060 touch screen may be added to the UC-B140-T kit as an additional control point for the Microsoft Teams environment.[5]

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Specifications

Included Components

UC-SB1-CAM-FLEX	UC video conference smart soundbar
TSW-1060-B-S	10.1 in. touch screen, black
TSW-1060-TTK-B-S	Tabletop kit for touch screen, black
UC-BRKT-100-SD-ASSY	UC Engine Assembly, comprised of: UC-ENGINE-SD: UC Engine for Microsoft Teams video; HD-CONV-USB-200: HDMI to USB 3.0 converter for content ingest; UC-CONN-HD: EDID emulator for UC Engine display output; Mounting bracket
CBL-CAT5E-7	(2) Ethernet LAN cables for UC Engine, RJ45-to-RJ45, black, 7 ft (2.1 m)
PWE-4803RU	PoE injector for touch screen

Smart Soundbar & Camera

Speakers	Stereo 2-way, 20 W per channel, 3 in. (76 mm) woofers, 3 x 4-3/8 in. (76 x 112 mm) passive radiators, 1 in. (25 mm) dome tweeters, 80 Hz to 20 kHz (±3 dB) frequency response, 91 dB SPL @ 1 m output level (both channels driven at full power)
Microphone	Linear quad-element far-field adaptive beamforming microphone array, 15 ft (4.6 m) pickup range[4], 180° horizontal pickup angle, 20 Hz to 8 kHz frequency response
Audio DSP	Acoustic echo cancellation, dereverberation, automatic gain control, dynamic noise suppression, adaptive beamforming, speaker volume control; full-duplex IEEE 1329 Type 1 compliant
Camera Optics	12 Megapixel Sony® IMX477 Type 1/2.3 CMOS sensor, ultra wide angle six element aspherical glass lens, f/2.8 aperture
Camera Field of View	150° diagonal, 120° horizontal, 90° vertical
Camera Processing	Intel Movidius® Myriad® X VPU with Neural Compute Engine hardware accelerator, dynamic light optimization, auto white balance, autozoom
Camera Autozoom	Genius Framing automatic lossless digital zoom intelligently frames people in the room
Camera Noise Reduction	3D noise reduction, bias compensating spatio-temporal filtering, wide area chroma filtering, flicker elimination
Camera Scaling	Real-time scaling, dewarping, and perspective correction
Camera Resolution	HD 1080p @ 30 fps
Camera Color Space	YCbCr 4:2:0, YCbCr 4:2:2, MJPEG
USB	USB 3.0 Type-B port; UAC 1.0, UVC 1.1, & HID; 2-channel stereo far-end/content signal input, 2-channel mono microphone signal output, camera output; for audio, video, and communications interface to UC Engine
Analog Audio Input	2-Channel stereo via 3.5 mm TRS mini-phone jack, fixed level (bypasses DSP), 1 Vrms maximum per channel for full rated output, for in-room amplification of an external audio source
Analog Audio Output	2-Channel stereo via 3.5 mm TRS mini-phone jack, fixed level, 1 Vrms maximum, feeds amplified audio content to an assistive listening system
Status Bar	(1) Multi-segment RGBY LED zero-center mutually diverging linear bargraph; Indicates the speaker volume, microphone mute, and speaker mute in red and green LEDs
Main Power	IEC 60320 C14 main power inlet (power cord included), 500 mA maximum @ 100-240 VAC, 50/60 Hz
Enclosure	Lightly textured gunmetal black finish, plastic housing, perforated stainless steel grilles, die-cast aluminum rear cover, steel hinged mounting bracket

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Mounting	Freestanding or surface wall mount at ear/face level
Dimensions	Height: 4.57 in. (117 mm) Width: 43.60 in. (1108 mm) Depth: 3.90 in. (100 mm)
Weight	Approximately 15 lb (6.8 kg)

Refer to the UC-SB1-CAM-FLEX spec sheet for additional specifications and compliances.

Tabletop Touch Screen

Touch Screen	10.1 in. (257 mm) diagonal capacitive multi-touch TFT active matrix color LCD, 1280 x 800 pixels, displays Microsoft Teams UI plus optional Crestron Smart Graphics® room control UI[1]
Ethernet	10/100 Mbps; enterprise grade security and management including IEEE 802.1X, Active Directory® authentication, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), digest access authentication, password login, HTTPS secure provisioning, Crestron XiO Cloud client, IEEE 802.3at compliant
Power over Ethernet	EEE 802.3at compliant PoE or 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
PoE Injector	A PoE injector is included to power the touch screen if network PoE is not available
Construction	Plastic tabletop housing, smooth black finish, edge-to-edge glass with black surround
Dimensions	Height: 5.42 in. (138 mm) Width: 10.23 in. (260 mm) Depth: 5.69 in. (145 mm)
Weight	41.2 oz (1166 g)

Refer to the TSW-1060-B-S, TSW-1060-TTK-B-S, and PWE-4803RU specifications for additional information.

UC Engine Assembly

Mini PC	Intel NUC Kit NUC8i5BEK
Processor	Intel Core® i5-8259U processor (2.3 GHz with 3.8GHz Turbo, Quad Core, Hyper-thread, 6 MB Cache, 28W TDP)
UC Client	Microsoft Teams or Skype for Business Software
Management Client	Crestron XiO Cloud Service
USB	USB 3.0 host supporting USB HID, UAC, and UVC for audio conference soundbar bar, camera, content ingest, and keyboard/mouse devices
Content Ingest	HDMI input via HDMI to USB 3.0 converter (model HD-CONV-USB-200)
Display Output	DisplayPort™ 1.2 via USB Type-C® port, converted to HDMI via converter cable
Camera Input Resolution	HD 1080p @ 30 fps
Content Input Resolution	HD 1080p @ 60 fps
Display Output Resolution	HD 1080p @ 60 fps
Power	19 VDC via external 100-240 VAC, 50/60 Hz adapter (included)
Construction	Metal mounting bracket, black, preassembled with UC Engine and USB to HDMI converter
Mounting	Surface wall mount behind the display device, or attach to the rear of the display device via the bolts attaching the display to a VESA® compliant display mount; the Crestron bracket includes mounting holes on both side edges, spaced 100, 200, and 300 mm vertically, to allow for attachment to either side of the display mounting plate
Dimensions	Height: 16.00 in. (407 mm) Width: 14.00 in. (356 mm) Depth: 1.68 in. (43 mm)

Refer to the UC-ENGINE-SD, HD-CONV-USB-200, and UC-BRKT-100-SD-ASSY spec sheets for additional specifications and compliances.

Model

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Available Accessories

UC-B-ACCY KIT
Accessory kit for UC-B140-T and UC-B140-Z

TSW-560/760/1060-SMK
Swivel Mount Kit for TSW-x60-TTK Series

Notes:

1. Room control capability (lighting, shades, thermostats, etc.) requires additional equipment and commissioning to be provided by a Crestron authorized integrator and/or programmer. Additional costs may apply.
2. New UC-B140-T systems may be added to existing Crestron XiO Cloud subscription accounts at a discounted rate. An additional purchase toward the existing subscription account term may be required. For more information, please contact license@crestron.com.
3. If the Crestron XiO Cloud service is to be used for management of the touch screen, it must be on the same VLAN as the UC-ENGINE-SD.
4. Microphone pickup range may vary in rooms with highly reflective infrastructure (e.g., glass walls, metal furniture, open ceilings, etc.) or above average ambient noise.
5. A maximum of two touch screens or one touch screen and one Crestron Mercury device can be accommodated by the system. Only one device may be connected via direct connection method.

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.

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

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Specifications are subject to change without notice.

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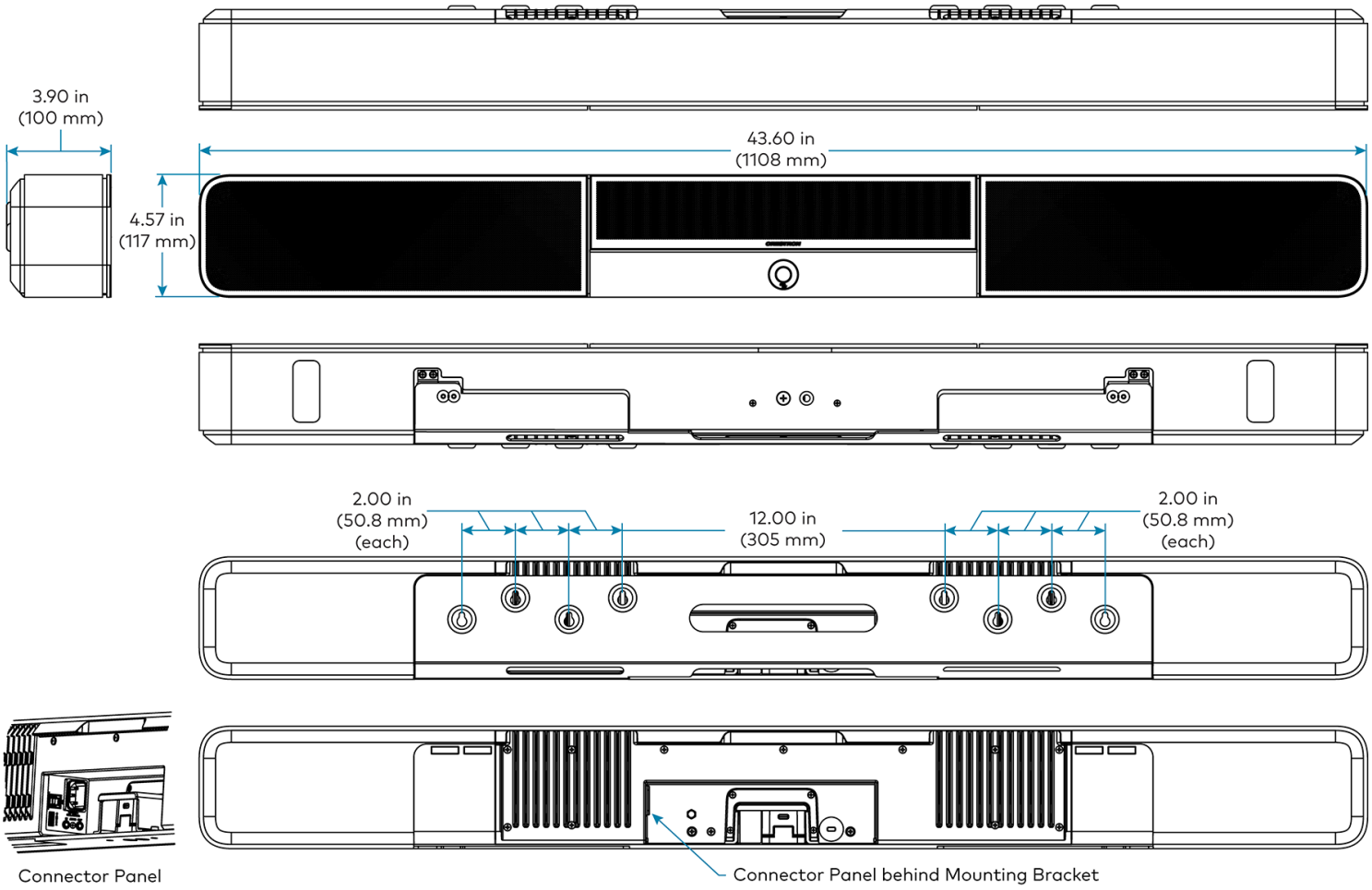

UC-SB1-CAM-FLEX

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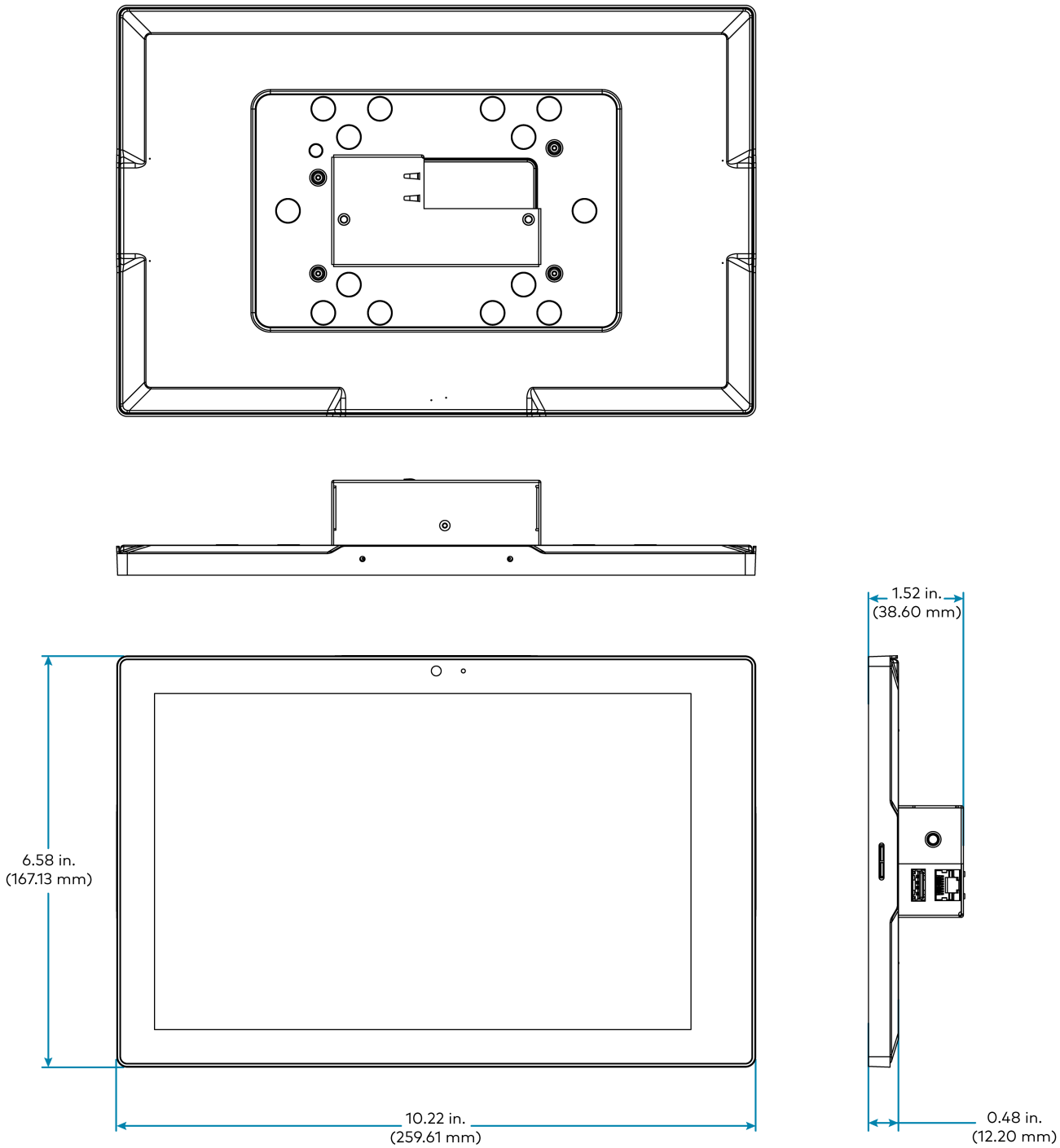

TSW-1060-B-S

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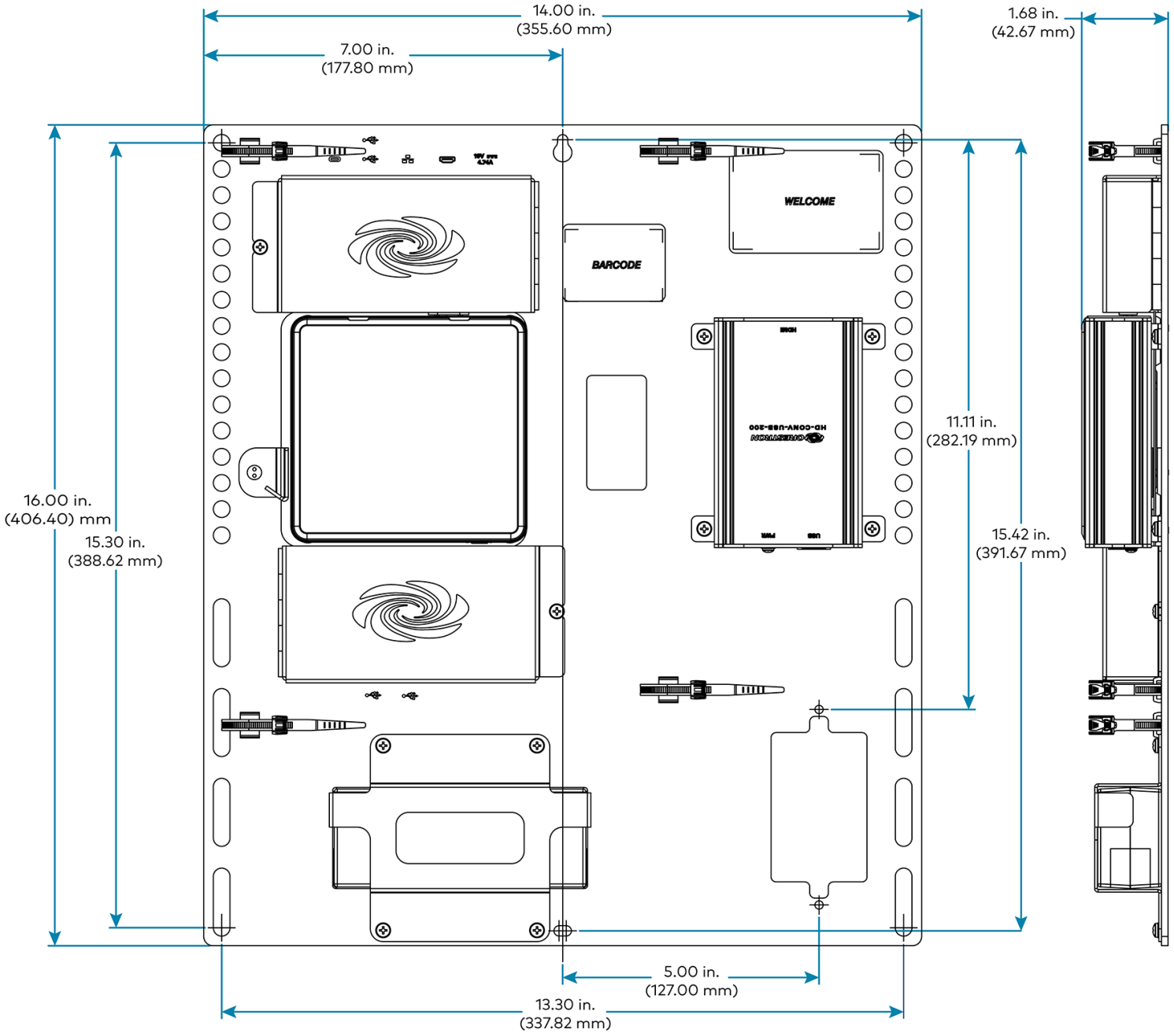

UC-BRKT-100-SD-ASSY

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