UC-M150-Z

Crestron® Flex Tabletop UC Video Conference System for Zoom Rooms™ Software

- *A complete solution that contains the Crestron Mercury® tabletop console, Huddly IQ™ high-definition USB camera, UC Engine, and power supplies — just add a display and mount*
- *Easy to provision and manage through Crestron XiO Cloud™ service*
- *HDMI® input for laptop and other AV content sources; HDMI output for room display device(s)*
- *Exceptional full-duplex audio performance and 2-way wideband voice quality*
- *Limes Audio TrueVoice® AEC (Acoustic Echo Cancellation) technology*
- *Integrated 360° quad microphone array*
- *7 in. (178 mm) HD color touch screen*
- *Onscreen calendaring and meeting management*
- *Connects and communicates securely over any enterprise or SMB network*
- *Supports single or dual display configuration*
- *PIR (Passive Infrared) occupancy detector wakes the device when it senses motion or voice*
- *Enterprise-grade security*

The Crestron Flex UC-M150-Z system provides a complete video conference room solution for use with Zoom Rooms™ software. It supports single or dual video displays, and features the Crestron Mercury Tabletop UC Audio Conference Console, which comprises a high-performance, full-duplex conferencing speakerphone and touch screen controller in one stunning tabletop device.

Native Zoom Rooms™ Software Experience

The UC-M150-Z system features Zoom Rooms conferencing software that enables audio and video connectivity for easy collaboration and content sharing.

Crestron Mercury® UC Conference Console

Through one tabletop device, the CCS-UC-1 facilitates effortless conferencing and control. Its advanced speakerphone delivers highly intelligible, echo-free voice clarity, and its functional design is perfectly at home on any conference table.

The UC-M150-Z system facilitates conversations with exceptional audio fidelity and pickup. The console's integrated 360° quad microphone array faithfully captures voices at every seat at the table. Its high-powered, full-range speaker produces full, rich and real sounding audio for both voice and program material. Limes Audio TrueVoice® AEC technology achieves transparent full-duplex performance free of distracting echo or noise. Wideband audio codec support allows for full-spectrum, bidirectional voice communication.

Its extra-large, high-definition touch screen makes the UC-M150-Z system easy to use, whether starting or joining an online meeting or presenting and sharing content. The full-color user interface provides quick access and intuitive operation through a feature-rich UI.

Occupancy detection using a patent-pending combination of motion and voice activity provides several benefits, such as monitoring and reporting room usage to the Crestron Fusion® monitoring and scheduling software, or automating the system to power down to save energy when all parties leave the room.

Additionally, the UC-M150-Z system can integrate with a Crestron control system to enable touch screen control of room lighting, motorized window shades, climate control, AV, and other amenities.[1] Large or long tables are easily accommodated by adding up to two mic pods (CCS-UCA-MIC KIT sold separately), which may be daisychained or individually home run to the main console.[2] For ultimate versatility, the console can be powered using either PoE+ or the included 100-240 V universal power pack.[2] The console can sit freely on any tabletop surface, or be permanently attached to the table using the optional 180° swivel mount kit (CCS-UCA-SMK sold separately).

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Huddly IQ™ camera

The included 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. High precision aspherical optics, 12 MP CMOS sensor, and advanced video processing ensure an immersive, crystal clear video image free from light or noise artifacts or optical aberrations. Genius Framing digital autozoom (coming soon) 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.

UC Engine

The UC Engine Assembly (UC-BRKT-100-Z-ASSY) streamlines the installation of a Crestron UC system by assembling the UC-ENGINE-Z, 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, 200, and 300 mm vertically, to allow for attachment to either side of the display mounting plate on the rear of the display device.

Additional features are included to manage wiring and conceal connections for a clean, secure installation. A 1-gang sized cutout at the lower right-hand corner allows for mounting over a flush wall-mounted electrical box, which may be used for an AC outlet or a wall plate containing AV and data jacks.

Network Management and Security

Crestron Flex is an enterprise-grade solution, engineered to integrate seamlessly into any Zoom Rooms 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. 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-M150-Z system 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. 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. For more information, visit www.crestron.com/xiocloud.

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Specifications

Included Components

CCS-UC-1: Crestron Mercury Tabletop UC Audio Conference Console for Zoom Rooms Video;
Cable, CAT5e, RJ-45 Male - RJ-45 Male, 12 ft (3.66 m);
Cable, USB 2.0, A - Micro B, 6 ft (1.83 m);
Retention Plate, Cable Tie Wrap

PW-2420RU: Desktop Power Pack, 24 VDC, 2.5 A, 2.1 mm, Universal

CCS-CAM-USB-F-400: Huddly IQ Collaboration Camera

UC-BRKT-100-Z-ASSY: UC Engine Assembly, comprised of:

- UC-ENGINE-Z: UC Engine for Zoom Rooms video;
- HD-CONV-USB-200: HD to USB Video Converter for content ingest;
- UC-CONN-HD: EDID emulator for UC Engine display output;
- CBL-MDP-HD-0.5: Mini DisplayPort™ to HDMI converter
- Mounting bracket

CBL-USB-A-EXT-15: USB Extension Cable, Type A Male-to-Female, 15 ft (4.57 m)

CBL-HD-THIN-HS-6: HDMI Cable, Thin, Type A Male-to-Male, 6 ft (1.83 m)

CBL-USBC-HD-9: USB-C® to HDMI Converter Cable, USB Type-C® Male to HDMI Type A Male, 9 ft (2.7 m)

CBL-CAT5E-7: Ethernet LAN cables for UC Engine, RJ45-to-RJ45, black, 7 ft (2.1 m)

CBL-HD-DVI-20: Crestron Certified HDMI to DVI Interface Cable, 20 ft

CCS-UCA-KB-USB: Wireless keyboard with touchpad for setup

CCS-UCA-MEM-USB: Zoom Rooms USB Stick

Audio Conference Console

Touch Screen: 7 in. (178 mm) diagonal capacitive multi-touch TFT active matrix color LCD, 1280 x 800 pixels, displays Zoom Rooms UI plus optional Crestron Smart Graphics® room control UI[1]

Mic Mute Symbol & Light Bar: (2) Capacitive buttons with bi-color LEDs, either button toggles between mute and unmute, the symbol LED blinks green when the unit is powering up, all LEDs illuminate red when the mic is muted, all LEDs illuminate green when the mic is unmuted during an active call or online meeting

AEC: Limes Audio TrueVoice acoustic echo cancellation, automatic mic mixing, automatic gain control, and dynamic noise reduction; full-duplex IEEE 1329 Type 1 compliant

Speaker: Full range speaker, 11 W amplifier power, 95 dB SPL at 0.5 m maximum output, 90 Hz to 22 kHz frequency response

Microphones: 360° quad mic array, 20 ft (6 m) typical pickup range

Extension Microphones: Supports two mic pods, model CCS-UCA-MIC KIT (sold separately)

Occupancy Sensor: Patent-pending Persistent Occupancy Awareness combining passive infrared motion and voice activity detection, 6 ft (1.83 m) PIR range in front of touch screen, activates touch screen and reports room occupancy to Crestron Fusion monitoring and scheduling software

Ethernet: 10/100 Mbps; enterprise grade security and management including IEEE 802.1X, Active Directory® authentication, LDAP, Kerberos, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), SRTP, digest access authentication, password login, HTTPS secure provisioning, Crestron XiO Cloud client, IEEE 802.3at Type 2 compliant

USB: USB 2.0 micro Type B device port, supports UAC for audio interface to UC Engine (included)

Power Options:

PoE+: IEEE 802.3at Type 2, Class 4 (25.5 W) PoE+ Powered Device[2];

24 VDC: 24 VDC via external 100-240 VAC, 50/60 Hz power pack, model PW-2420RU (included)

Dimensions:

Height: 4.11 in. (105 mm)

Width: 8.92 in. (227 mm)

Depth: 12.74 in. (324 mm)

Weight: 5.5 lb (2.5 kg)

Refer to the CCS-UC-1 and CCS-UCA-MIC KIT spec sheets for additional specifications and compliances.

Camera

Model: Huddly IQ

Field of View: 150° diagonal, 120° horizontal, 90° vertical

Connectivity: Plug-and-play USB 3.1

Resolution/FPS: HD 1080p @ 30 fps

HD Digital Zoom: 3x lossless digital zoom, pan, and tilt[3]

Dimensions:

Height: 1.30 in. (33 mm)

Width: 1.58 in. (40 mm)

Depth: 2.82 in. (72 mm)

Weight: 4.1 oz (115 g)

Refer to the CCS-CAM-USB-F-400 spec sheet for additional specifications and compliances.

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UC Engine Assembly

Mini PC: Intel® NUC Kit NUC6i7KYK

Processor: 6th generation Intel Core® i7-6770HQ processor with Intel Iris® Pro Graphics 580, 8 GB RAM, 128GB SSD, Intel I219-LM 10/100/1000 Mbps Ethernet, Windows® 10 IOT Edition OS

UC Client: Zoom Rooms Software

Management Client: Crestron XiO Cloud Service

USB: USB 3.0 host supporting USB HID, UAC, and UVC for audio conference console, camera, content ingest, and keyboard/mouse devices

Content Ingest: HDMI input via HDMI to USB 3.0 converter (model HD-CONV-USB-200, included)

Display Output: Single or dual display support, native Mini DisplayPort (primary) and USB Type-C (secondary) outputs, HDMI outputs enabled via converter cables (included)

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 in. (407 mm)
- **Width:** 14 in. (356 mm)
- **Depth:** 1.68 in. (43 mm)

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

Models & Accessories

Model

UC-M150-Z: Tabletop UC Video Conference System for Zoom Rooms™ Software

Available Accessories

CCS-UCA-MIC KIT: Microphone Pods, set of 2

CCS-UCA-SMK: Swivel Mount Kit

CEN-SWPOE-16: 16-Port Managed PoE Switch

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-XIOC-P-1: Crestron XiO Cloud Premium Provisioning and Management Service for one device, 1 year subscription

SW-XIOC-P-2: Crestron XiO Cloud Premium Provisioning and Management Service for one device, 2 year subscription

SW-XIOC-P-3: Crestron XiO Cloud Premium Provisioning and Management Service for one device, 3 year subscription

SW-XIOC-S-1: Crestron XiO Cloud Standard Provisioning and Management Service for one device, 1 year subscription

SW-XIOC-S-2: Crestron XiO Cloud Standard Provisioning and Management Service for one device, 2 year subscription

SW-XIOC-S-3: Crestron XiO Cloud Standard Provisioning and Management Service for one device, 3 year subscription

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

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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. When used without any microphone pods connected, the Crestron Mercury console may be powered using either PoE+ or the included power pack (model PW-2420RU). If one or two mic pods are connected, the console MUST be powered using the power pack. PoE+ cannot be used to power the console if any mic pods are connected. When using PoE+, make sure the network switch supports PoE+ (802.3at Type 2). Regular PoE (802.3af or 802.3at Type 1) cannot be used to power the console. Be advised, the UC Engine component can only be powered using its included AC power adapter. The UC Engine cannot be powered via PoE or PoE+.
3. This feature is not utilized as part of a Crestron Flex system.

This product may be purchased from an authorized Crestron dealer. To find a dealer, 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.

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, visit www.crestron.com/opensource.

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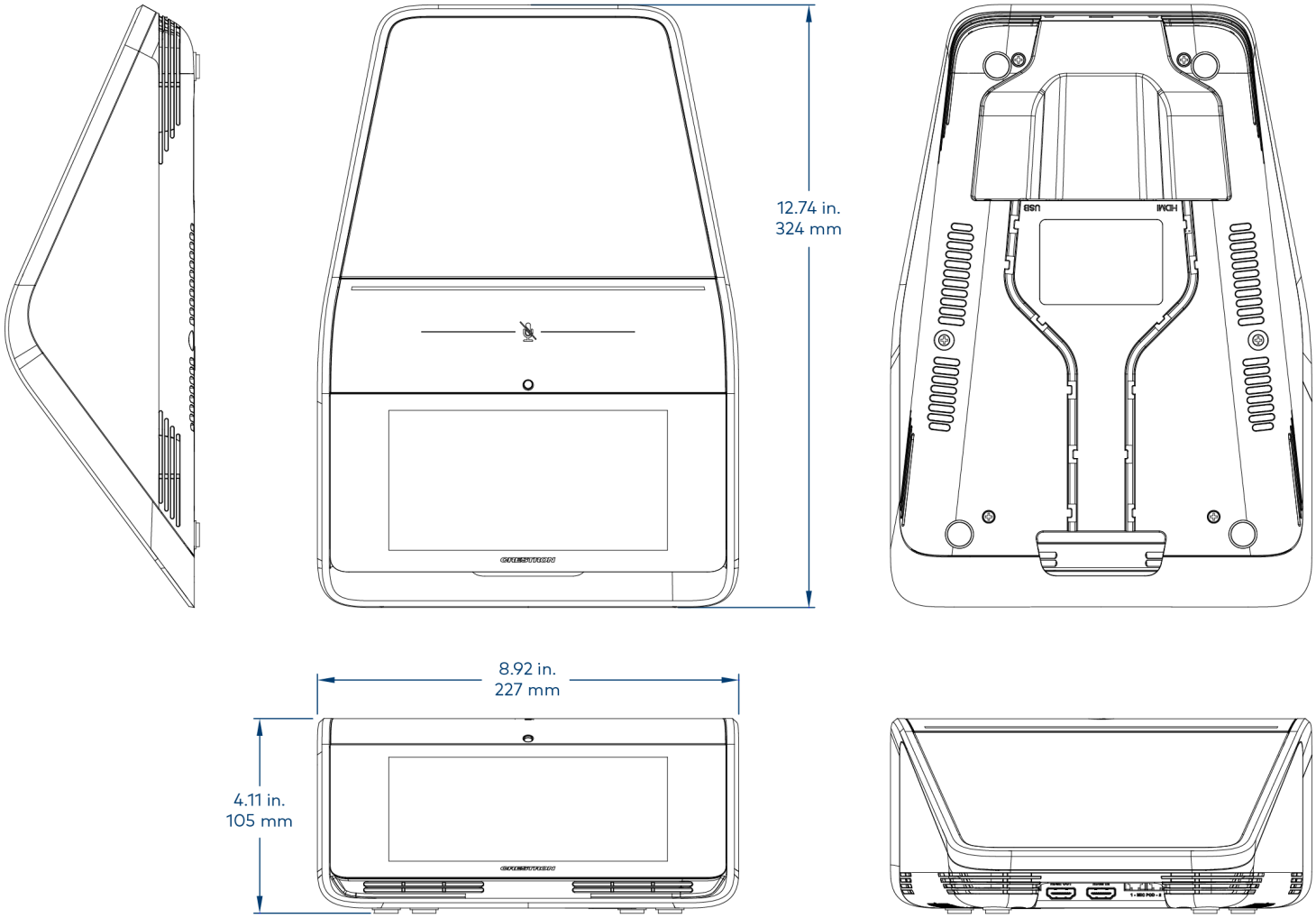

CCS-UC-1-T-V

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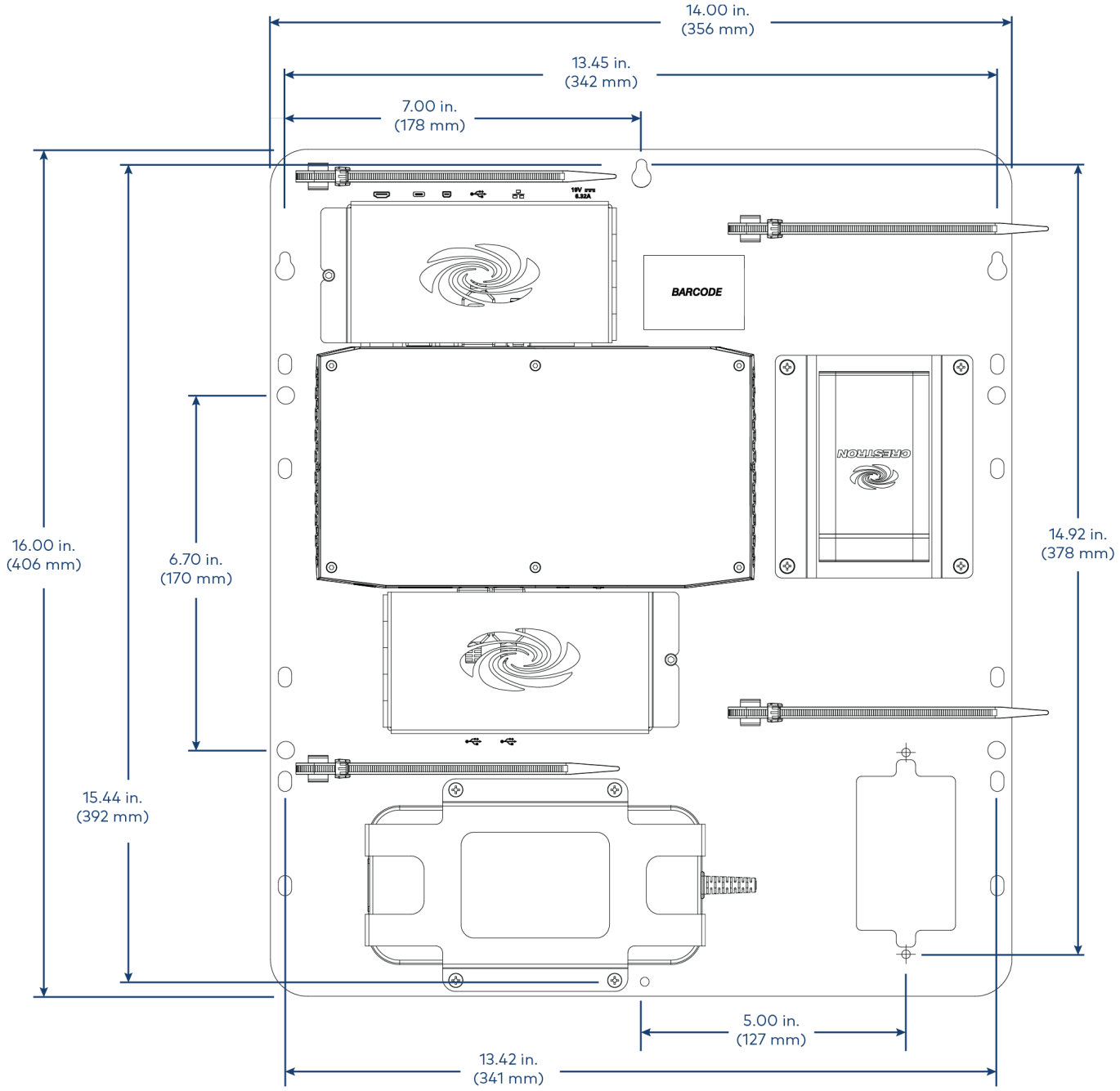

UC-BRKT-100-Z-ASSY

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