

UC-ENGINE

UC Engine for Microsoft Teams® Collaborative Software



- Sold exclusively as part of a complete Crestron Flex UC system
- Enables Microsoft Teams® software video conferencing and content sharing
- Employs a powerful Intel® NUC Mini PC
- Preloaded Microsoft® and Crestron® software
- Easy to provision and manage through the Crestron XiO Cloud™ service
- Works natively with any Microsoft Teams or Skype® for Business software account
- Connects and communicates securely over any enterprise or SMB network
- Supports single or dual display configurations
- External 100-240V power adapter included

All the capabilities of a complete Microsoft Teams® software based video conferencing and content sharing solution are empowered by the Crestron® UC Engine (UC-ENGINE). For ultimate performance, Crestron employs a powerful Intel® NUC Mini PC running software with built-in Crestron XiO Cloud™ support.² The UC Engine forms the core of a complete Microsoft Teams based Crestron Flex system, providing extreme processing performance, Gigabit Ethernet, and complete connectivity for one or two HD displays, a USB camera, and one USB audio conferencing device.¹

A maximum of two touch screens or one touch screen and one Crestron Mercury® UC conference console may be added for room control.

Presenting and sharing AV content from a laptop PC is facilitated through the addition of a Crestron HDMI® to USB 3.0 Converter (HD-CONV-USB-200), which enables full-motion HD video and audio content ingest via a single HDMI input. As part of a complete Crestron Flex system, the UC-ENGINE and HD-CONV-USB-200 are mounted together on a bracket (UC-BRKT-100-ASSY), which allows for easy installation attached to a wall or to the back of the display device.¹

This product is sold exclusively as part of a complete Crestron Flex system kit:

- Refer to the Crestron Flex M150-T system (UC-M150-T) for a complete tabletop video conferencing solution featuring the UC Engine and Crestron Mercury® audio conference console.
- Refer to the Crestron Flex B160-T system (UC-B160-T) for a complete wall mount video conferencing solution featuring the UC Engine, UC video conference smart soundbar, and tabletop touch screen.
- Refer to the Crestron Flex C160-T integrator kit (UC-C160-T) for custom system applications and integration with a Crestron Avia™ audio DSP.

Specifications

Intel NUC Mini PC

Model: Intel NUC Kit NUC6i7KYK

Processor: 6th generation Intel Core® i7-6770HQ processor, 2.6 to 3.5 GHz Turbo, Quad Core, 6 MB Cache

RAM: 8 GB DDR4 2400MHz

Storage: 256 GB SSD

Graphics: Intel Iris® Pro Graphics 580

Networking: Intel I219-LM 10/100/1000 Mbps Ethernet

Operating System: Windows® 10 IOT Enterprise²

UC Client: Microsoft Teams or Skype for Business software

Management Client: Crestron XiO Cloud™ service

Communications

Ethernet: 10/100/1000 Mbps

UC: Microsoft Teams or Skype for Business client; compatible with Office 365® cloud service or on-premises Skype for Business Server 2015 (or above); supports Teams and SfB video conferencing, Enterprise Voice, Phone System, O365 modern authentication (limited), directory lookup, and PSTN calling; DTMF tone generation (RFC 2833 & in-band), acoustic echo cancellation, automatic gain control, comfort noise generator, low-delay audio packet transmission, adaptive jitter buffers, packet loss concealment

USB: Four USB 3.0 host ports supporting USB HID, UAC, and UVC for audio conferencing device, camera, and content ingest (plus temporary keyboard/mouse for initial setup)¹

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Video

Camera Input: USB UVC from a Microsoft Teams compliant USB camera¹

Content Input: USB UVC content ingest from a Microsoft Teams compliant HDMI to USB convertor¹

Display Output: DisplayPort™ 1.2 via USB Type-C® port, converted to HDMI via converter cable¹

Camera Input Resolution: HD 1080p @ 30 fps

Content Input Resolution: HD 1080p @ 60 fps

Display Output Resolution(s): HD 1080p @ 60 fps

Audio

Audio Conferencing Input/Output: USB UAC bidirectional stereo audio signals for integration with a Microsoft Teams software compliant AEC-enabled USB audio conferencing speakerphone device¹

Content Input: USB UAC stereo audio ingest from a Microsoft Teams compliant HDMI to USB convertor¹

Buttons & Indicators

Power: (1) Pushbutton with LED backlight for power on/off and reset

LAN: (2) LEDs on LAN port for Ethernet link status and activity

Connectors

SD Card Slot: (1) SDXC memory card slot with UHS-I support (not used)

SSUSB (Front): (2) USB 3.0 Type-A connectors, female; USB 3.0 host ports (one charging, one non-charging); Connect to a keyboard and mouse for setup, and to an audio conferencing device for runtime operation¹

Headset (Front): (1) 3.5 mm headphone/microphone jack (not used)

19 VDC: (1) DC power connector;
19 VDC power input;
Power adapter included

Audio/Optical: (1) 3.5 mm rear speaker/TOSLINK combo output jack (not used)

LAN: (1) 8-pin RJ45 connector, female;
10Base-T/100Base-TX/1000Base-T Ethernet port

SSUSB (Rear): (2) USB 3.0 Type-A connectors, female;
USB 3.0 host ports;
Connect to camera and HDMI to USB convertor¹

MDP: (1) Mini DisplayPort connector, female;
Digital video output;
Connects to the primary display device via a MDP to HDMI converter cable¹

USB-C: (1) USB Type-C connector, female;
Digital video output;
Connects to an optional secondary display device via a USB-C® to HDMI converter cable¹

HDMI: (1) HDMI Type A connector, female;
Digital video output (disabled);
Requires connection to an EDID emulator (UC-CONN-HD)¹

Power

Power Adapter (included): Input: 100-240 VAC, 50/60 Hz;
Output: 120 W @ 19 VDC

Construction

Enclosure: Metal and plastic, variable speed fan cooled

Mounting: VESA® mount, Kensington® lock with base security

Environmental

Operational Temperature: 32° to 104° F (0° to 40° C)

Storage Temperature: -4° to 140° F (-20° to 60° C)

Dimensions

Height: 1.10 in. (28 mm)

Width: 8.30 in. (211 mm)

Depth: 4.56 in. (116 mm)

Compliance

Product Safety: IEC 60950-1, UL 60950-1, EN 60950-1, CAN/CSA-C22.2 No. 60950-1

EMI/RF (Class B): CISPR 22; FCC CFR Title 47, Chapter I, Part 15, Subparts A, B; ICES-003, EN 55022, EN 55024, ETSI EN 300 328, ETSI EN 301 489- 1, ETSI EN 301 489-17, ETSI EN 301 893, EN 62311, AS/NZS 2772.2, AS/ NZS 4268; VCCI V-3, V-4; KN-22, KN-24, CNS 13438

Environmental: RoHS Directive 2011/65/EU, WEEE Directive 2012/19/EU, China RiHS MII Order #39

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Notes:

1. Audio conferencing devices (Crestron Mercury, Crestron Avia™ DSP, or UC sound bar) are either sold separately or as part of a complete Crestron Flex system kit. The UC engine, bracket, convertors, EDID emulator, camera, keyboard, and cables, are all sold exclusively as part of a complete Crestron Flex system kit. The display devices are not included.
2. Custom OS images are not supported.

This product is sold only as part of a complete system kit, which 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 <https://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 for 3 years. Refer to <https://www.crestron.com/warranty> for full details.

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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