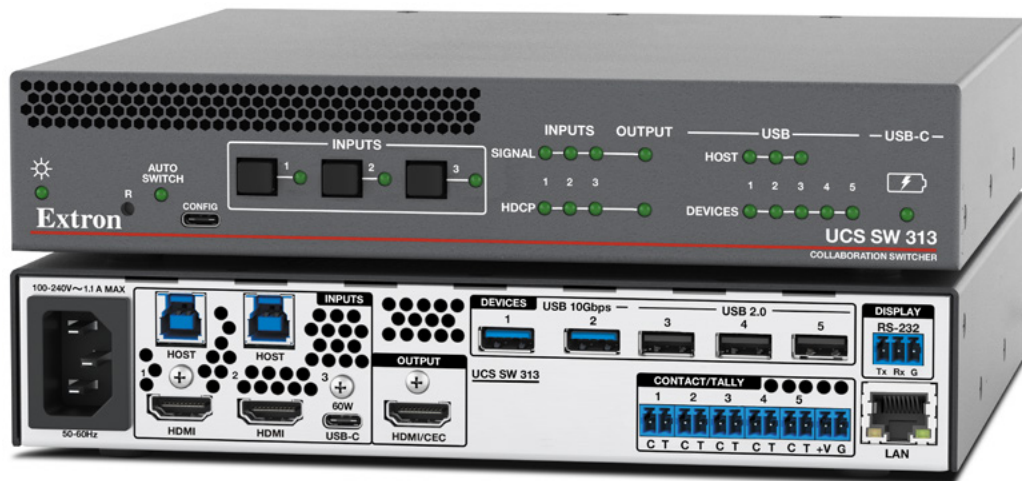


UCS SW 313

THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER



The **UCS SW 313** is a powerful collaboration and presentation switcher designed to meet the unique needs of unified communications meeting spaces. Three inputs include two HDMI inputs with USB and one USB-C input, which supports video/audio, USB data, and 60W of power. Five USB peripheral connections support USB cameras and microphones at data rates up to USB 10 Gbps.

- ▶ Switches USB devices between USB-C and dual HDMI inputs sent to the output display
- ▶ Supports computer and video resolutions up to 4K/60
- ▶ Provides USB device connections up to USB 10 Gbps
- ▶ Auto-input switching
- ▶ Provides up to 60 watts of power to a USB-C source
- ▶ Display control options including RS-232 and CEC

DESCRIPTION

The **UCS SW 313** is a three-input, one-output, 4K collaboration and presentation switcher with USB device connections for unified communications spaces. The inputs support USB-C and HDMI with USB. The USB-C input provides video/audio, USB data, and 60W of power from an internal power supply. Five USB peripheral connections support USB cameras or microphones. The HDMI output enables resolutions up to 4K/60 and USB devices connect at rates up to USB 10 Gbps. Auto input switching makes it easy to operate collaboration spaces without a full control system. The switcher can also be controlled via Ethernet, providing RS-232 control to a local display. The compact half-rack width enclosure mounts under a table, desk, or in an equipment rack. The UCS SW 313 simplifies integration of AV sources and USB cameras with Teams® and Zoom™ meetings in collaboration spaces.

Intuitive Collaboration

The user-friendly UCS SW 313 is easy to use in any meeting space, including simple rooms without a control system. The auto switching feature can be configured to prioritize inputs if more than one laptop or computer is connected at the same time. This can be used in rooms that have a dedicated computer connected to one input, leaving other inputs for other devices such as laptop computers. As laptops connect, the switcher will automatically switch that laptop to the display and connect the USB camera or other room devices to the laptop for use in a Teams or Zoom meeting. When a laptop is disconnected, the system will automatically switch back to the dedicated computer for users who may want to use the room without a laptop. This empowers users to collaborate intuitively, with minimal interaction with the AV hardware.

KEY FEATURES

- ▶ **Switches USB devices between USB-C and dual HDMI inputs sent to the output display**
- ▶ **Single connection for video, USB data, and power for USB-C source devices**
- ▶ **Supports computer and video resolutions up to 4K/60 @ 4:4:4**
 - Resolutions up to 4096x2160/60 with 4:4:4 chroma sampling at 8 bits of color.
- ▶ **Provides USB device connections up to USB 10 Gbps** – For use with USB cameras or microphones.
- ▶ **Provides up to 60 watts of power to a USB-C source** – Supports USB Power Delivery to charge a laptop or other USB-C connected device.
- ▶ **Auto-input switching** – Automatically switches to the highest-numbered input with an active video signal or to an active input based on a configured priority.
- ▶ **Compatible with Show Me® cables** – Show Me cables provide convenient connectivity and user input selection and control.
- ▶ **Display control options including RS-232 and CEC over HDMI connection**
- ▶ **Ethernet monitoring and control** – Enables control and proactive monitoring over a LAN or WAN.
- ▶ **1U, half rack width metal enclosure** – Compact, low profile enclosure allows discreet installation within furniture or behind a flat panel display.
- ▶ **Internal Extron Everlast™ power supply** – Provides worldwide power compatibility, with high-demonstrated reliability and low power consumption for reduced operating cost.

Compact Enclosure

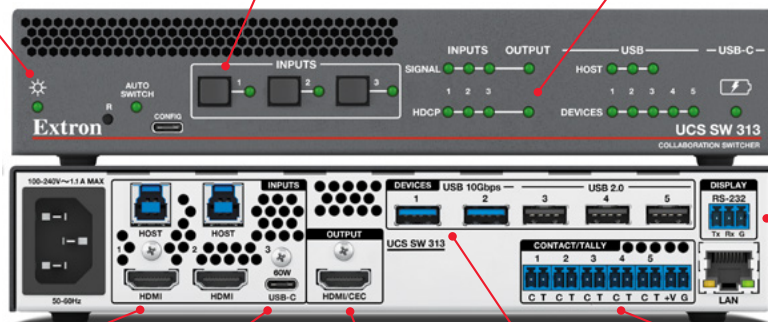
One RU half-rack width enclosure can be rack mounted or discreetly installed in furniture

Multiple Control Options

Auto and Manual switching capability

Status LEDs

Input, Output, and USB status LEDs provide visual indication of activity for attached computers and peripherals



RS-232 Display Control

Provides local display control without external control system

Dual HDMI Inputs

4K capable with USB 10 Gbps data connections

USB-C Input

4K video/audio, USB 10 Gbps data, and 60W of power in a single connection

HDMI Output

Supports computer and video resolutions up to 4K/60

Five Peripheral Device Ports

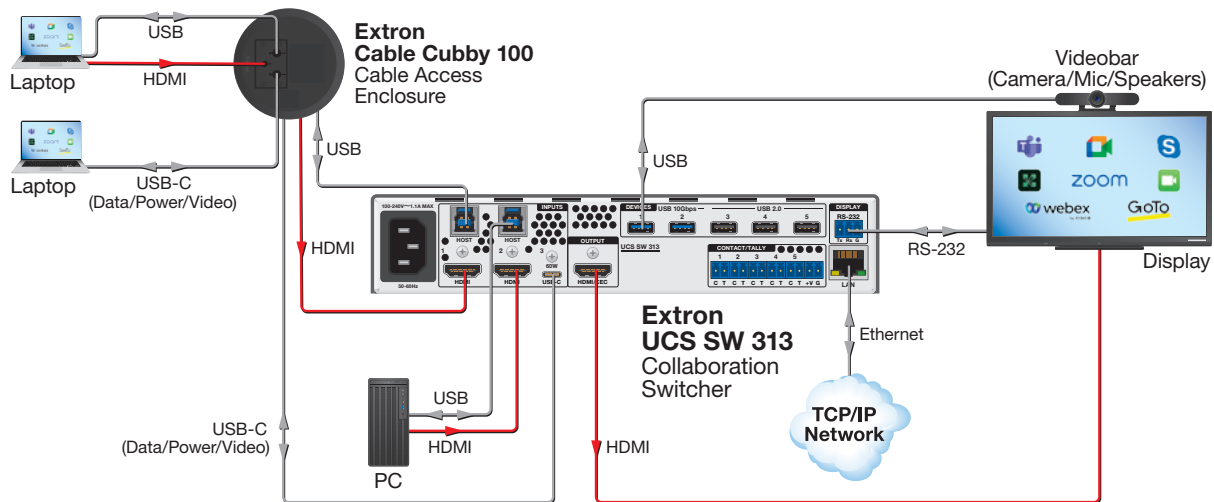
Two support rates up to USB 10 Gbps and three support rates up to USB High Speed (USB 2)

Contact & Tally Control Ports

Enable operation by optional Show Me cables, a button panel, or an occupancy sensor

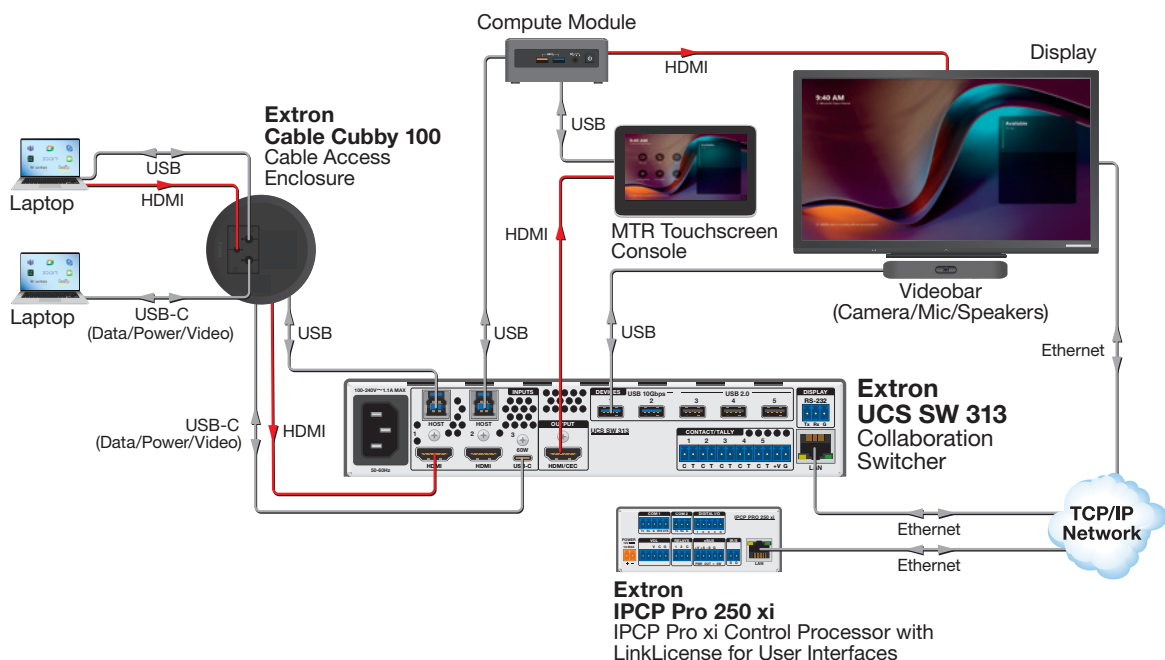
BYOM CONFERENCE ROOM

In this Bring Your Own Meeting (BYOM) application, a USB-C laptop and HDMI with USB laptop connect at the Cable Cubby 100 enclosure. A dedicated PC connects to the UCS SW 313 HDMI with USB input. The UCS SW 313 auto switches the active laptop or PC to the room display while switching the room's Videobar camera, microphone, and speakers to the laptop or computer. The computer running the Teams or Zoom meeting uses the room's camera and microphone to connect with the remote meeting participants.



BYOM TEAMS ROOM

In this BYOM Teams Room application, a USB-C laptop and HDMI with USB laptop connect at the Cable Cubby 100 enclosure. A Compute Module running the Teams UC service connects to the UCS SW 313 HDMI plus USB input, and the HDMI output connects to the MTR Touchscreen Console. In BYOM mode, the UCS SW 313 switches the laptop running the UC meeting to the Compute Module/MTR Touchscreen Console, which sends it to the room display, while simultaneously switching the Videobar's USB camera, microphone, and speakers to the laptop. In Room System mode, the UCS SW 313 switches the Videobar's USB camera, microphone, and speakers to the Compute Module running the UC meeting, which sends content to the display. In this mode, the meeting host may use the laptops to share video content to the remote meeting participants.



SPECIFICATIONS

TRUE 4K SPECIFICATION		
Max 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz 4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4:4:4	8 bit
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz		12 bit
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:0	
Frame rate ¹	24, 25, 30, 50, or 60 fps	
Chroma sampling ¹	4:4:4 or 4:2:0	
Color bit depth ¹	8, 10, or 12 bits per color	
Signal Type	HDMI 2.0b, HDCP 2.3	
Max. video data rate	18 Gbps (6 Gbps per color)	
NOTE: ¹ Subject to the maximum data rate limit. Use our calculator at www.extron.com/8Kdata to determine video parameters supported by this data rate.		

VIDEO	
Maximum data rate	18 Gbps (6 Gbps per color)
Maximum pixel clock	600 MHz
Resolution range	Up to 1080p @ 120 Hz or 4K @ 60 Hz (4:4:4 chroma subsampling)
Color bit depth	8, 10, or 12 bits
Formats	RGB and YCbCr digital video
HDR	HDR 10, HDR10+, Dolby Vision
Standards	HDMI 2.0b, DVI 1.0, HDCP 1.x, HDCP 2.3, CTA-861-F
VIDEO INPUT	
Number/signal type	2 HDMI 2.0 (or single link DVI-D with appropriate DVI-HDMI adapters) 1 DisplayPort 1.2 USB-C Alt Mode (2 or 4 lanes) RBR/1.62 Gbps, HBR/2.7 Gbps, HBR2/5.4 Gbps
Connectors	2 female HDMI type A 1 female USB type C
Horizontal frequency range	15 kHz to 270 kHz for resolutions up to 18 Gbps
Vertical frequency range	24 Hz to 240 Hz for resolutions up to 18 Gbps
VIDEO OUTPUT	
Number/signal type	1 HDMI (or single link DVI-D with appropriate DVI-HDMI adapters)
Connector	1 female HDMI type A
Output power for active cables	1.25 watts max for HDMI port
NOTE: *Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.	
USB	
USB host support	xHCI (USB 3.2), EHCI (USB 2.0), OHCI/UHCI (USB 1.1)
USB data rates	Low speed (1.5 Mbps), full speed (12 Mbps), high speed (480 Mbps), SuperSpeed (5 Gbps), SuperSpeed+ (10 Gbps)
Data transfer types	Bulk, control, interrupt, and isochronous
USB HOST PORTS	
Number/signal type	3 USB
Connectors	2 female USB 3.2 type B, 1 female USB type C

USB DEVICE PORTS		
Number/signal type	(1) 2-port USB 3.2 hub, (1) 3-port USB 2.0/1.x hub	
Connectors	2 USB 3.2 type A, 3 USB 2.0/1.x type A	
Built-in hubs	1	
Available USB power	USB-A 3.2: 900 mA per port USB-A 2.0: 500 mA per port	
COMMUNICATIONS - UNIT		
USB control port	1 female USB-C on front panel	
Control standards	IP over USB (RNDIS)	
USB standards	USB 2.0, low speed	
Ethernet control port		
Ethernet data rate	10/100Base-T, half/full duplex with auto detect	
Ethernet protocol	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, Telnet	
Program control	Extron Product Control Software (PCS) Extron Simple Instruction Set (SIS™)	
Contact/tally ports	5 sets (2 pins each) of contact and tally ports 1 set (1 pin each) of +V and G Tally output power +5 VDC, 0.2 A	
COMMUNICATIONS - DISPLAY CONTROL		
Serial control port	(1) 3.5 mm 3 pole captive screw connector	
Baud rate and protocol (RS-232)	9600 (default), 19200, 38400, 57600, or 115,200 baud 8 (default) or 7 data bits 1 stop bit No parity (default), or even or odd parity	
GENERAL		
Power supply	Internal Input: 100-240 VAC, 50-60 Hz	
Power consumption	98.2 watts	
Ambient temperature/humidity	Storage: -40 to +158 Å°F (-40 to +70 Å°C) / 10% to 90%, noncondensing Operating: +32 to +122 Å°F (0 to +50 Å°C) / 10% to 90%, noncondensing	
Cooling	Convection, rear vents	
Thermal dissipation	87.1 BTU/hr	
USB-C power delivery	Up to 60 watts power delivery at the following power profiles: 5 VDC @ up to 3 A 9 VDC @ up to 3 A 12 VDC @ up to 3 A 15 VDC @ up to 3 A 20 VDC @ up to 3 A	
Mounting		
Rack mount	Yes, with optional 1U rack shelf	
Enclosure type	Metal	
Enclosure dimensions	1.75" H x 8.75" W x 6.0" D (1U high, half rack wide) (44 mm H x 222 mm W x 152 mm D) (Depth includes connectors.)	
Product weight	2.0 lbs (0.9 kg)	
Regulatory compliance	CE, c-UL, UL, FCC Class A, ICES, VCCI	
Product warranty	3 years parts and labor	
Everlast power supply warranty	7 years parts and labor	
NOTE: All nominal levels are at ±10%.		
Model	Version Description	Part number
UCS SW 313	3x1 4K/60 Collaboration and Presentation Switcher	60-1797-02

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.



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