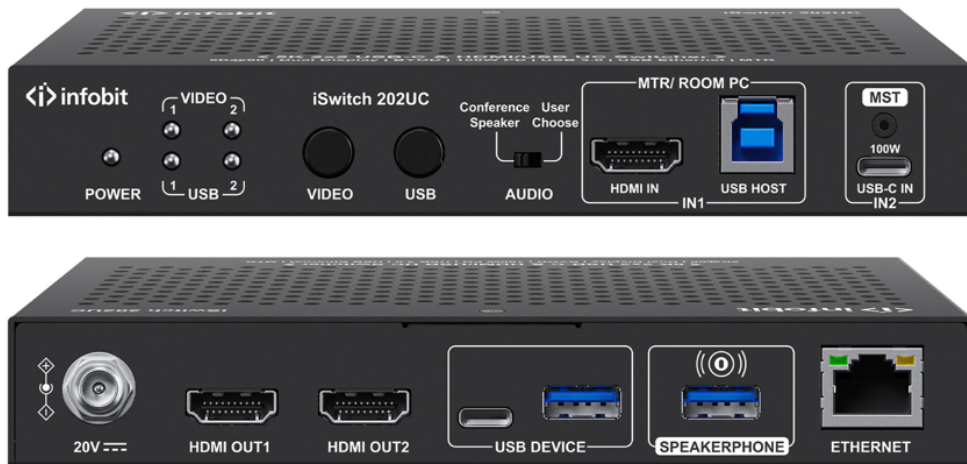


## **iSwitch 202UC**

### **5K 2x2 USB-C & HDMI/ USB UC Switcher**

*Design Spec V1.0*



### **1. Dual Outputs:**

The UC switcher's HDMI output shall support HDMI 2.0b, up to 5120x2160@30Hz, 5120x1440@60, 3840x2160@60Hz and HDCP 2.2.

The UC switcher shall support dual outputs, when USB-C input is selected, it able to expand two desktops at the same time (MST).

### **2. HDMI + USB 3.0 IN**

The UC switcher shall provide a set of HDMI 2.0 + USB 3.0 combined input for connecting the MTR host or Room PC.

The UC switcher's HDMI input shall support HDMI 2.0b, up to 5120x2160@30Hz, 5120x1440@60, 3840x2160@60Hz and HDCP 2.2.

### **3. USB-C IN:**

The UC switcher shall support 1x full-featured USB-C input, support USB 3.0 data, 5k/4K video, ethernet and charging.

**Data:** USB 3.0, up to 5Gbps;

**Video:** HDMI 2.0b, DP alt mode, MST/SST supported, up to 5120x2160@30Hz, 5120x1440@60, 3840x2160@60Hz;

The UC switcher's USB-C shall support DP MST mode, can output two videos at the same time.

The UC switcher shall support PD charging: Maximum 100W charging function, supports PD3.0/2.0 protocols.

### **4. USB DEVICE:**

The UC switcher shall support 3x USB device ports, 2x USB-A and 1x USB-C.

The UC switcher's USB-C (data only) device port shall support 5Gbps data transfer rate, and 1.5A power output.

The UC switcher's 2x USB 3.0 type-A device ports shall support 5Gbps data transfer rate, and 1.5A power output.

The UC switcher shall support "SPEAKERPHONE" audio priority settings.

### **5. Audio (in/out):**

The UC switcher shall fully support audio formats in HDMI 2.0/DP 1.2 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X.

## **6. Auto-CEC:**

The UC switcher shall support automatic CEC function, which automatically triggers CEC power-on/off commands to both HDMI outputs by detecting valid signals from the selected input.

## **7. UPDATE:**

The UC switcher shall support firmware updating via USB-C IN port.

## **8. Audio DIP Switch:**

The UC switcher shall support below audio DIP switching functions

**Left:** Conference Speakerphone -- HDMI EDID excludes audio capability. Device does not present audio function. Audio comes from USB conference speakerphone.

**Right:** User Choose -- HDMI EDID includes audio capability. Device presents audio function to laptop. If a conference speakerphone is connected, the laptop will detect two audio devices and the user can select one manually.

## **9. Ethernet:**

The UC switcher shall have 1x LAN port.

The LAN port shall support USB-C or USB-B to 1G Ethernet Bridge. Enables 10/100/1000 Mbit/s Ethernet connectivity and sharing through the selected active USB-C or USB-B port.

## **10. VIDEO SWITCH:**

The UC switcher shall support automatic and manual switching between HDMI and USB-C inputs, defaults to auto mode, and manual switching can be triggered via the button.

## **11. USB SWITCH:**

The UC switcher's all USB device ports can switch between any 2 input ports, including one USB-C and one USB-B (Host) port.

The UC switcher shall support follow video and manual switching, defaults to follow video switching, and manual switching can be triggered via the button.

## 12. Input & Output Resolutions

| Scan Type               | Resolutions                           | Frame Rate  | Color Sampling | Color Depth |
|-------------------------|---------------------------------------|-------------|----------------|-------------|
| Progressive scanning    | 5120*2160 5K Ultra-Wide               | 30 Hz       | 4:4:4          | 8 bit       |
|                         | 5120*1440 5K Super-Wide               | 60 Hz       | 4:4:4          | 8 bit       |
|                         | 4096*2160 DCI 4K and 3840*2160 UHD 4K | 60 Hz       | 4:2:2/4:2:0    | 12 bit      |
|                         | 4096*2160 DCI 4K and 3840*2160 UHD 4K | 30 Hz       | 4:4:4          | 12 bit      |
|                         | 4096*2160 DCI 4K and 3840*2160 UHD 4K | 60 Hz       | 4:2:2/4:2:0    | 12 bit      |
|                         | 4096*2160 DCI 4K and 3840*2160 UHD 4K | 60 Hz       | 4:4:4          | 8 bit       |
|                         | 2560*1600 WQXGA Reduced Blanking      | 60 Hz       | 4:4:4          | 12 bit      |
|                         | 2560*1440 WQHD Reduced Blanking       | 120Hz/60Hz  | 4:4:4          | 8 bit       |
|                         | 2560*1080 UWFHD                       | 60 Hz       | 4:4:4          | 8 bit       |
|                         | 2048*1152 QWXGA                       | 60 Hz       | 4:4:4          | 12 bit      |
|                         | 2048*1080 DCI 2K                      | 60 Hz       | 4:4:4          | 12 bit      |
|                         | 1600*1200 UXGA                        | 60 Hz       | 4:4:4          | 12 bit      |
|                         | 1920*1200 WUXGA                       | 60 Hz       | 4:4:4          | 12 bit      |
|                         | 1920*1080 FHD 1080p                   | 60 Hz       | 4:4:4          | 12 bit      |
|                         | 1920*1080 FHD 1080p                   | 240Hz/120Hz | 4:4:4          | 8 bit       |
| Interlaced (Input Only) | 1920*1080 HD 1080i                    | 60 Hz       | 4:4:4          | 12 bit      |

## 13. USB HUB Tiers

The UC switcher shall support below USB Hub tiers

USB 3.0 (From USB-C/USB-B to USB-A Device): 1 Tier

USB 3.0 (From USB-C/USB-B to USB-C Device): 1 Tier

USB 2.0 (From USB-C/USB-B to USB-A Device): 2 Tier

USB 2.0 (From USB-C/USB-B to USB-C Device): 2 Tier