



Prestel BYOM-3

3x1 4K60 BYOM Switcher

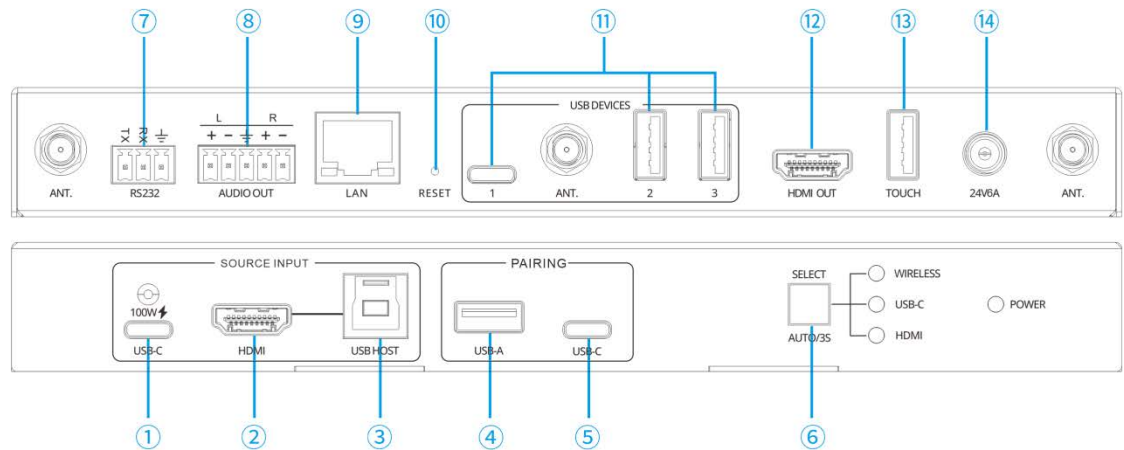


DATASHEET

Description:

BYOM-3 is a 3x1 BYOM switcher, it provides A/V and USB auto switching between HDMI, USB-C and wireless connected sources, with one device it can meet different people with different preference, people can choose wired connection if they want a high quality and reliable video conference, meantime it also enables wireless connection if people prefer convenient and cable-free BYOM experience.

BYOM-3 Interfaces:



- ① USB-C port to connect with PC
- ② HDMI port to connect with PC
- ③ USB-B to connect with HDMI PC
- ④ USB-A for HDMI dongle for paring
- ⑤ USB-C for USB-C dongle pairing
- ⑥ Button to switch the source
- ⑦ RS232 for control
- ⑧ Balanced analog audio
- ⑨ RJ45 for LAN and control
- ⑩ Reset hole
- ⑪ 2x USB-A 3.0 ports, 1x USB-C for USB devices like camera or speakerphone
- ⑫ HDMI out
- ⑬ Touch HID for HDMI screen
- ⑭ 24V/6A power

2. The technical spec

Video	
Video Input	(1) HDMI 2.0b, (1) USB-C 2-lane DisplayPort alt mode, DisplayPort 1.4a, (1) Wireless
Input Connector	(1) Type-A female HDMI, (1) USB Type-C
HDMI input Resolution	Up to 4K@60Hz 4:4:4
USB-C Input Resolution	Up to 4K@60Hz 4:4:4
Video Output	(1) HDMI2.0b
Output Connector	(1) Type-A female HDMI
HDMI Output Resolution	Up to 4K@60Hz 4:4:4
HDCP Version	HDCP 2.x/1.x
AirPlay Resolution	Up to 4K@30Hz
Miracast Resolution	Up to 4K@30Hz
WirelessMedia APP Resolution	Up to 4K@30Hz
WirelessMedia dongles DG-C28/DG-H28 Resolution	Up to 4K@30Hz
Audio	
HDMI Embedded Audio Format	PCM 2CH
Audio Output Connector	(1) 5-pin terminal block. Balanced line audio output.
Frequency Response	-0.02~+0.08 dB(20Hz~20KHz)
Max Output Level	±0.9V
THD+N	-85dB
SNR	106dB
Crosstalk Isolation	100dB
L-R Level Deviation	0dB
Output Load Capability	2K Ω
USB Standard	
USB Host	(1) USB-C: USB 3.2 Gen 1, (1) USB-B: USB 3.2 Gen1
USB Devices	(2) USB-A: USB 3.2 Gen 1, (1) USB-C: USB 3.2 Gen 1, (1) USB 2.0
USB Devices Power	5V@4A (20W) Shared
Control	
Control ports	(1) RS232, (1) TCP/IP
RS232	(1) 3 pin Phoenix connector TX-RX-GND BAUD 2400-115200
TCP/IP	(1) RJ45 port, 10/100/1000Base-T auto negotiation.
Network	
LAN	(1) RJ45 port, 10/100/1000Base-T auto negotiation.

WiFi Standards	IEEE 802.11a/b/g/n/ac
WiFi Frequency Bands	2412MHz-2472MHz (19.95dBm), 5180MHz-5240MHz (22.97dBm), 5745MHz-5825MHz (13.97dBm)
WiFi Antennas	(3) Antennas, MIMO 2x2 and MIMO 1x1, power 1.8W+1.6W
WiFi Encryption	AES, WPA, WPA2, PSK
Security	IEEE 802.1x, HTTPS, TLS, PEAPITLS
General	
Operation Temperature	0~40°C
Storage Temperature	-20°C~ 60°C
Relative Humidity	0~85% relative humidity, non-condensing
External Power Supply	24V16A
Max Power Consumption	130W (Fully loaded)
Power Consumption Standby	5.95W
USB-C Power Charging	100W PD3.0
Dimension (W*H*D)	215x152x25 mm
Net Weight	1000g (not including the 700g power adapter)
Shipping Dimension	345x265x77mm
Shipping weight	2200g
Safety Compliance	FCC.CE-RED
Environmental Compliance	ROHS, REACH, WEEE

3. Feature description:

- Enable wireless sharing from Airplay, Miracast, Chromecast, App and 4K dongles
- Enable wireless BYOM with both Windows and Macbook
- Enable wired BYOM with HDMI and USB connection, getting 4K@60 A/V, USB 3.0 devices and 1G network
- Enable wired BYOM with single USB-C connection, getting 4K@60 A/V, 100W power charging, USB 3.0 devices and 1G network
- Enable A/V and USB auto switching between HDMI, USB-C and wireless connected sources
- Enable touch back control with both wired and wireless connected PC
- Provide balanced audio breakout
- Provide both RS232 and Telnet control

System
Diagram

