



RAV-SW-2x1U2H100-Tx/Rx
Technical Specification

RAV-SW-2x1U2H100-TxRx

2x1 USB-C Auto Switcher over HDBaseT Dual Screen

Kratos family of switchers



Key Features

- Extension of USB 3.2 Gen 1 up to 100m/328ft via CAT6a cable.
- USB 3.2 Gen 1 connectivity with data transfer rate up to 5Gbps.
- Backwards compatible with USB 2.0 and 1.1.
- Hardware acceleration for isochronous and bulk transfer.
- Built-in DisplayLink technology for video over USB on dual HDMI outputs, with resolution up to 4K@60Hz.
- TX supports auto switching and manual switching via switch button or API commands.
- RX supports audio de-embedding to balanced/unbalanced analogue output

Specifications

Technical	
USB Protocol	USB 3.2 Gen 1
Transmission Rate	Up to 5Gbps
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
HDMI Video Bandwidth	18Gbps
HDMI Video Resolution	Up to 4K@60Hz
Colour Depth	8/10/12-bit
Colour Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Transmission Distance	100m/328ft via CAT6a (F/FTP) cable 1.5m/4.9ft via USB cable 3m/9.8ft via HDMI passive cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Transmitter	Input: 2× USB-C HOST [USB Type C, 24-pin female] Output: 2× USB-A DEVICE [USB Type A, 9-pin female] 1× USB-C DEVICE [USB Type C, 24-pin female] 1× HDBT-USB3 [RJ45 connector, 24V PoC] Control: 1× RS-232 [3pin-3.5mm phoenix connector] 1× FSYNC [1pin-3.5mm phoenix connector] 1× SERVICE [USB Type C, firmware update port]
Receiver	Input: 1× HDBT-USB3 [RJ45 connector, 24V PoC] Output: 2× USB-A DEVICE [USB Type A, 9-pin female] 1× USB-C DEVICE [USB Type C, 24-pin female] 2× HDMI OUT [Type A, 19-pin female] 1× AUDIO OUT [5pin-3.5mm phoenix connector] Control: 1× RS-232 [3pin-3.5mm phoenix connector]

	1× FSYNC [1pin-3.5mm phoenix connector] 1× SERVICE [USB Type C, firmware update port]
Mechanical	
Housing	Metal Enclosure
Colour	Black
Dimensions	Transmitter: 140mm [W] × 75mm [D] × 23mm [H] Receiver: 180mm [W] × 95mm [D] × 23mm [H]
Weight	Transmitter: 324g; Receiver: 486g
Power Supply	Input: AC 100~240V 50/60Hz; Output: DC 24V/3.75A (US/EU standards, CE/FCC/UL certified)
Power Consumption	Transmitter: 18.48W(Max); Receiver: 19.44W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing

About DisplayLink

Technology:

DisplayLink provides a solution for connecting displays to computers through a USB connection, rather than directly through the computer's native display ports.

Functionality:

It works by compressing and transmitting video data over a USB connection, allowing the computer to effectively "virtually" display multiple monitors.

Company:

DisplayLink is a company that manufactures chipsets and software, which are used in various products like the RAV-SW-2x1U2H100Tx/Rx

Benefits:

DisplayLink offers ease of use for connecting multiple displays, making it popular for users who need more screen space or want to connect a display to a computer without a dedicated graphics card.