



RAV-EX-HU100-TxRx
Technical Specification

RAV-SW-2x1HU100-TxRx

2x1 HDMI and USB-C Auto Switcher over HDBaseT

Kratos family of switchers



Key Features

- HDMI 2.0b and HDCP 2.2 compliant.
- Support 18Gbps video bandwidth.
- Support video resolution up to 4K2K@60Hz (YUV 4:4:4).
- HDR, HDR10, HDR10+, Dolby Vision LLM and HLG pass through.
- LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD pass through.
- 4K transmission distance up to 328ft/100m via a single CAT6A/7 cable (HDBT standard mode).
- 1080P transmission distance up to 492ft/150m via a single CAT6/6A/7 cable (HDBT long reach mode).
- Support bidirectional POC (Power over Cable), when TX or RX gets power, the other end does not need an external power supply.
- Support 3.5mm analogue audio de-embedding at TX and RX.
- EDID management.
- Support bi-directional RS-232 signal pass-through, bi-directional IR signal. control, USB2.0 signal transmission.
- Compact design for easy and flexible installation.

Package Contents

- 1 × HDBaseT 3.0 Extender (Transmitter).
- 1 × HDBaseT 3.0 Extender (Receiver).
- 1 × IR Blaster Cable (1.5 metres).
- 1 × IR Receiver Cable (1.5 metres).
- 2 × 3pin-3.81mm Phoenix Connectors (Male).
- 4 × Mounting Brackets and screws.
- 1 × 24V/1A Locking Power Adapter.
- 1 × User Manual.

Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps

Video Resolution	Up to 4K@60Hz
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Colour Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Colour Depth	8/10/12-bit
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
IR Level	12Vp-p
Transmission Distance	HDBT Standard Mode: 4K60 / 100m; 1080P / 100m (CAT6A/7 cable) HDBT Long Reach Mode: 1080P / 150m (CAT6/6A/7 cable)

Connection

Transmitter	Input: 1 × HDMI IN [Type A, 19-pin female] Outputs: 1 × HDBaseT OUT [RJ45 connector] 1 × L/R OUT [3.5mm Stereo Mini-jack] Controls: 1 × IR IN [3.5mm Stereo Mini-jack] 1 × IR OUT [3.5mm Stereo Mini-jack] 1 × RS-232 [3pin-3.81mm Phoenix jack] 1 × SERVICE [Micro USB, 5-pin female] 1 × USB HOST [USB Type B] 2 × USB DEVICES [USB Type A]
Receiver	Input: 1 × HDBaseT IN [RJ45, 8-pin female] Outputs: 1 × HDMI OUT [Type A, 19-pin female] 1 × L/R OUT [3.5mm Stereo Mini-jack] Controls: 1 × IR IN [3.5mm Stereo Mini-jack] 1 × IR OUT [3.5mm Stereo Mini-jack] 1 × RS-232 [3pin-3.81mm Phoenix jack] 1 × SERVICE [Micro USB, 5-pin female] 2 × USB DEVICES [USB Type A]

Mechanical

Housing	Metal Enclosure
Colour	Black
Dimensions	Transmitter / Receiver: 144mm [W] x 78mm [D] x 23mm [H]
Weight	Transmitter: 323g, Receiver: 319g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 24V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	14.28W (POC)
Operating Temperature	32 - 104°F / 0 - 40°C

Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)