



ReThink

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RAV-EX-U70-TxRx

Technical Specification

RAV-EX-U70-TxRx

18Gb USB-C and HDMI & USB 2.0 over HDBaseT 3.0

Osiris family of extenders



Description of Key Features

- HDBaseT 3.0 extender with USB-C input.
- 18Gbps video bandwidth, and video resolution up to 4K@60Hz (4:4:4 8bit) as specified in HDMI 2.0b.
- Extend uncompressed 4K60Hz (4:4:4 8bit) signal up to 130ft/40m and 4K30Hz (4:4:4 8bit) signal up to 230ft/70m with CAT6A/7 cable.
- HDR, HDR10+, Dolby Vision LLM and HLG pass-through.
- HDCP 2.3 compliant, to create a secure connection between the source and display.
- USB-C input supports DP-ALT mode standards (v1.2a) for A/V, USB 2.0 data and power charging up to 100 watts.
- USB 2.0 high speed over HDBaseT 3.0.
- Each USB-A port provides power up to 5V/1A.
- RS-232 signal pass-through.
- API control command set.
- Audio pass-through: LPCM 2.0/5.1/7.1CH, Dolby True HD, Dolby Atmos, DTS-HD Master Audio and DTS:X.
- Bidirectional 24V PoC (power over cable), when Tx or Rx gets power, the other end does not need an external power supply.
- Compact design for easy and flexible installation.

Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.3
USB Compliance	USB 2.0
Video Bandwidth	18Gbps
Video Resolution	Up to 4K@60Hz (4:4:4 8bit)
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	USB-C/HDMI pass-through: LPCM 2.0/5.1/7.1CH, Dolby True HD, Dolby Atmos, DTS-HD Master Audio and DTS:X
Transmission Distance	▪ Extend 4K60Hz (4:4:4 8bit) signal up to 130ft/40m and 4K30Hz

	(4:4:4 8bit) signal up to 230ft/70m with CAT6A/7 cable ■ USB 2.0 pass-through up to 230ft/70m, connecting to 4 USB devices to the receiver
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter	Front Panel: 1x CHARGE [USB Type C, 24-pin female] 1x USB-C IN [USB Type C, 24-pin female] 2x USB 2.0 DEVICES [USB Type A, 4-pin female] Rear Panel: 1x SERVICE [USB-C with USB 2.0 only, 12-pin female, firmware upgrade port] 1x RS-232 [3-pin phoenix with 3.5mm pitch] 1x HDBaseT OUT [RJ45 connector, 24V PoC] 1x Power LED [Red LED, Power indicator] 1x DC 24V [24V/2.7A, 19mm locking connector] Side Panel: 1x PoC ON/OFF [1-pin DIP switch, 24V PoC ON/OFF selection]
Receiver	Front Panel: 1x HDMI OUT [HDMI Type A, 19-pin female] 1x USB 2.0 DEVICES [USB Type C, 12-pin female] 3x USB 2.0 DEVICES [USB Type A, 4-pin female] Rear Panel: 1x SERVICE [USB-C with USB 2.0 only, 12-pin female, firmware upgrade port] 1x RS-232 [3-pin phoenix with 3.5mm pitch] 1x HDBaseT IN [RJ45 connector, 24V PoC] 1x Power LED [Red LED, Power indicator] 1x DC 24V [24V/2.7A, 19mm locking connector] Side Panel: 1x PoC ON/OFF [1-pin DIP switch, 24V PoC ON/OFF selection]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter/Receiver: 120mm [W] x 113mm [D] x 25.5mm [H]
Weight	Transmitter: 353g, Receiver: 352g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 24V/2.7A (US/EU standard, CE/FCC/UL certified)
Power Consumption	TX/RX with full USB devices: 51.36W TX/RX without USB devices: 10.08W

Operating Temperature	32°F - 104°F / 0°C - 40°C
Storage Temperature	-4°F - 140°F / -20°C - 60°C
Operating Humidity	20% - 80% relative humidity, non-condensing
Storage Humidity	10% - 90% relative humidity, non-condensing