

HDMI Extender

Engineered for Clarity. Designed for Control



4K HDMI / eARC and 1G LAN over HDBaseT 3.0 Extender

Overview

This Ordains 4K HDBaseT 3.0 Extender can extend uncompressed HDMI™ and eARC signals, 1G Ethernet, RS-232 and bi-directional IR signals up to 330ft/100m (4K60) via a single CAT6A/7 cable. Video resolution is up to 4K2K@60Hz YUV 4:4:4. This Extender supports bi-directional RS-232, IR signal pass-through and bi-directional PoC function. The Extender offers the most convenient solution for HDMI™ extension via a single CAT cable with long distance capability, and it is a perfect solution for home/commercial applications.



Features

- Compliant with HDCP 2.3, 18Gbps video bandwidth
- HDBaseT 3.0 VS3000 chipset based design
- Support video resolution up to 4K2K@60Hz (YUV 4:4:4), as specified in HDMI™ 2.0b
- 4K60 signal transmission distance up to 330ft /100m via a single CAT6A/7 cable
- TX features 1x HDMI™ input with eARC output, 1x IR input, 1x IR output, 1x RS-232, 1x HDBT output, 1x 1G LAN
- RX features 1x HDBT input, 1x HDMI™ output with eARC input, 1x IR input, 1x IR output, 1x RS-232, 1x 1G LAN
- Support bi-directional 24V PoC (power over cable), when TX or RX gets power, the other end does not need an external power supply.
- eARC/ARC pass-through from RX's TV to TX's AV receiver or soundbar
- RS-232 signal pass-through and API control
- Bi-directional IR signal pass-through
- 1G LAN/Ethernet pass-through
- Support HDR, HDR10+, Dolby Vision LLM, HLG

* Pictures of Device may vary from actual models.
 * Product Hardware / Specification are subject to change-without further notice.
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Technical Specifications

OS-HE100RSE

Specifications	Details
HDMI / HDCP Compliance	HDMI™ 2.0b / HDCP 2.3
Video Bandwidth	18Gbps
Video Resolution	4K2K@60Hz 4:4:4--70m, 1080P--70m (CAT6/6a cable)
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
IR Level	12Vp-p
IR Frequency	Wideband 20K-60KHz
Audio Formats	HDMI™ IN/OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Transmission Distance	HDMI™ passive cable: 9.8ft/3m CAT6A/7 cable: 330ft /100m@4K60
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Transmitter	Input: 1x HDMI™ IN [Type A, 19-pin female, supporting eARC/ ARC output] Output: 1x HDBaseT OUT [RJ45, HDBT output with 24V PoC] Control: 1x RS-232 [3pin-3.5mm phoenix connector] 1x SERVICE [USB-C with USB 2.0 only, 12-pin female] 1x IR IN [3.5mm audio jack, 12V level] 1x IR OUT [3.5mm audio jack] 1x LAN [RJ45 connector, 1G Ethernet pass-through]
Receiver	Input: 1x HDBaseT IN [RJ45, HDBT input with 24V PoC] Output: 1x HDMI™ OUT [Type A, 19-pin female, supporting eARC/ARC input] Control: 1x RS-232 [3pin-3.5mm phoenix connector] 1x SERVICE [USB-C with USB 2.0 only, 12-pin female] 1x IR IN [3.5mm audio jack, 12V level] 1x IR OUT [3.5mm audio jack] 1x LAN [RJ45 connector, 1G Ethernet pass-through]
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 90mm (W)×68mm (D)×18mm (H)
Weight	Transmitter: 160g, Receiver: 155g
Power Supply	DC 12V/1A ; Support bi-directional PoC function
Power Consumption	3.36 W (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)



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Connectivity Diagram

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