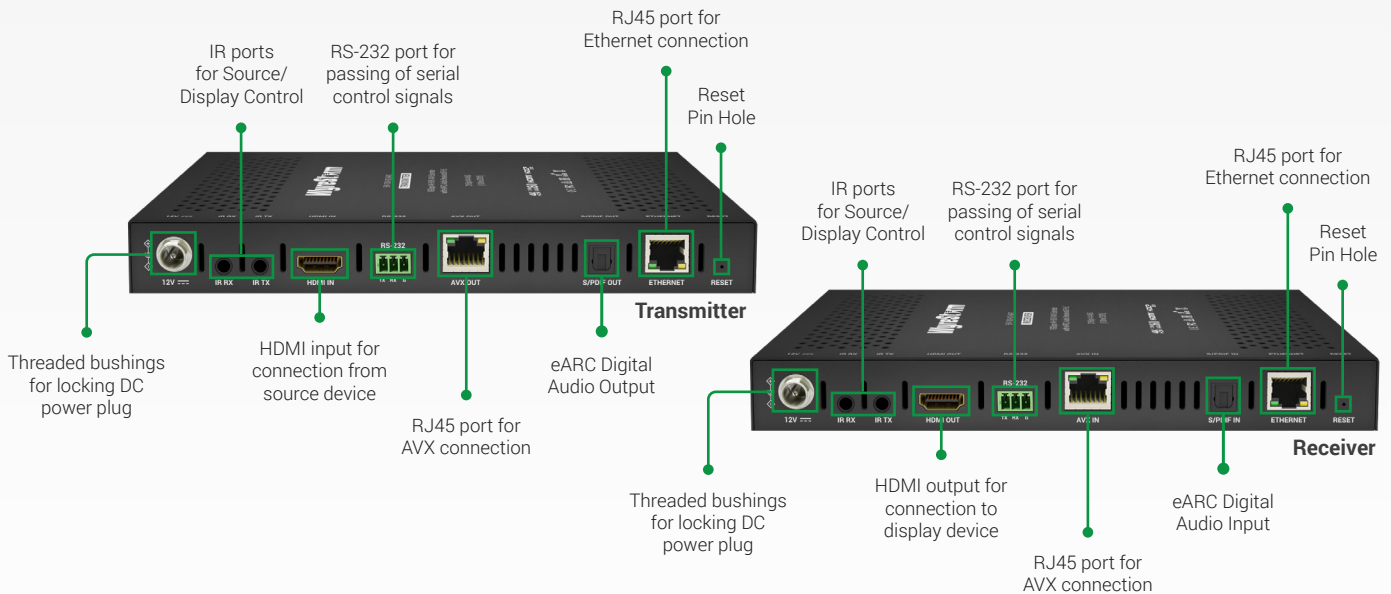


18Gbps 4K HDR AVX Extender with eARC, Audio Breakout & PoC

EX-100-H2-EARC

WyreStorm

Specification Sheet



WyreStorm - Powerful. Reliable. Simple.

Introduction

Extend 18Gbps A/V signals up to 100 meters with the EX-100-H2-EARC. This extender uses AVX technology, a similar transmission that is found inside our powerful NetworkHD 600 series, to send 4K HDR and Dolby Vision content at 60Hz. Compatible with eARC, you can transmit audio signals such as Dolby TrueHD/Atmos and DTS-HD MA 7.1 signals from a smart TV back to an eARC enabled AVR or soundbar. Flexible control passthrough options including IR, RS-232 and LAN allow you control a display and get devices connected over long distances.

Key Features

- Supports the latest UHD resolutions including HDR10, HLG and Dolby Vision formats
- Extend 18Gbps content up to 100 meters using Cat6a cabling or higher
- Compatible with eARC displays for transmitting high-bitrate audio formats including Dolby Atmos and DTS:X
- Backwards compatible with standard ARC
- Uses powerful AVX transmission technology
- Supports full CEC passthrough via TV remote to control connected AV equipment such as AVR volume or menu navigation
- PoE allows the transmitter to power the receiver over category cable
- 3 audio modes configured by dials: eARC, S/PDIF passthrough, HDMI input de-embed
- Control signal passthrough via bidirectional IR, 2-way RS-232 and Gigabit LAN

In the Box

1x EX-100-H2-EARC Transmitter
1x EX-100-H2-EARC Receiver
1x 12V DC 3A Power Supply (US/UK/EU/AU)
1x IR Receiver

1x IR Emitter
4x Mounting Brackets with screws
2x 3-pin Terminal Blocks
1x QuickStart Guide

Specifications

Audio and Video				
	Transmitter		Receiver	
Inputs	1x HDMI In: 19-pin type A		1x AVX In: 8-pin RJ-45 Female 1x S/PDIF In: Toslink Audio	
Outputs	1x AVX Out: 8-pin RJ-45 Female 1x S/PDIF Out: Toslink Audio		1x HDMI Out: 19-pin type A	
Output Video Encoding	AVX			
Encoding Data Rate	10.2Gbps			
End to End Latency	10µs (micro seconds)			
Audio Formats	HDMI Passthrough: 2ch Analog/PCM Multichannel: LPCM up to DTS-X and Dolby Atmos eARC: 2ch Analog/PCM Multichannel: LPCM up to DTS-X and Dolby Atmos S/PDIF: 2ch Analog/PCM Multichannel: LPCM up to Dolby Digital 5.1			
	Video Resolution	HDMI	Cat6	Cat6a/7
Video Resolutions (Max)	1920x1080p @120Hz 12bit	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @60Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @60Hz 12bit 4:2:2 HDR	7m/23ft	70m/230ft	100m/328ft
	Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference.			
Supported Standards	DCI RGB HDR HDR10 Low Latency Dolby Vision up to 60Hz HLG BT.2020 BT.2100			
Maximum Pixel Clock	600MHz			
Communication and Control				
HDMI	HDMI HDCP 2.2 EDID CEC Pass-through DVI/D supported with adapter (not included)			
AVX	HDMI HDCP 2.2 EDID Audio 1-way PoC (TX powers RX) Bidirectional IR/RS-232/Ethernet CEC			
IR	1x IR RX: 3.5mm (1/8in) TRS Stereo 1x IR TX: 3.5mm (1/8in) TS Mono (Transmitter and Receiver)			
RS-232	1x RS-232: 3-pin Phoenix (Transmitter and Receiver)			
Ethernet	1x Ethernet: 8-pin RJ-45 Female Bidirectional over AVX (Transmitter and Receiver)			
Power				
Power Supply	12V DC 3A			
Max Power Consumption	24W			
Environmental				
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) 10% ~ 90%, non-condensing			
Storage Temperature	-4°F to ~ 158°F (-20°C ~ +70°C) 10% ~ 90%, non-condensing			
Maximum BTU	82 BTU/hr			
Dimensions and Weight				
Rack Units Wall Box	<1U			
Height	25mm/0.98in			
Width	215mm/8.46in			
Depth	140mm/5.51in			
Weight	0.79kg/1.75lbs			
Regulatory				
Safety and Emission	CE FCC RCM EAC RoHS			

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.