

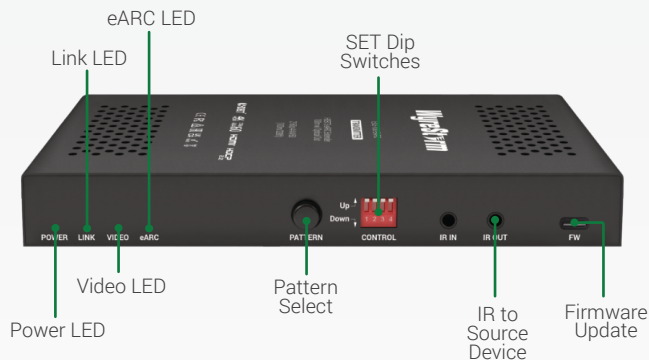
# 100m 4K 60 4:4:4 HDBaseT 3.0 Extender with eARC

## EX3-100-EARC

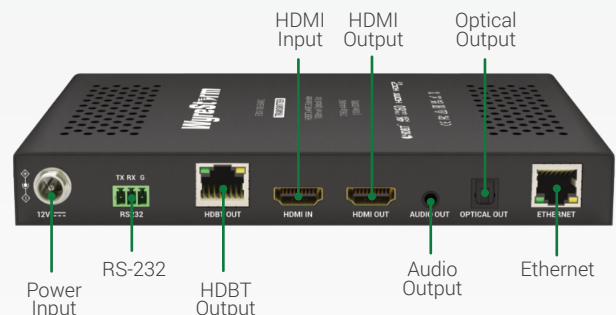
# WyreStorm®

## Specification Sheet

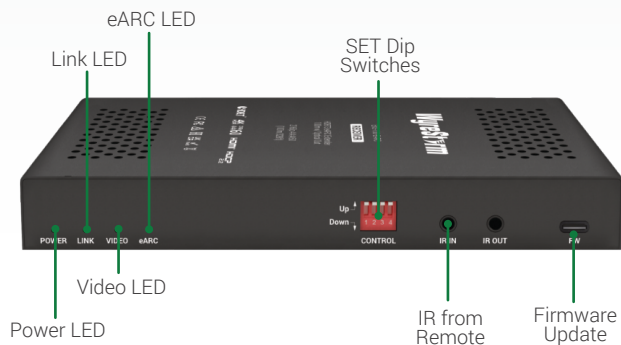
### EX3-100-EARC Transmitter (Front)



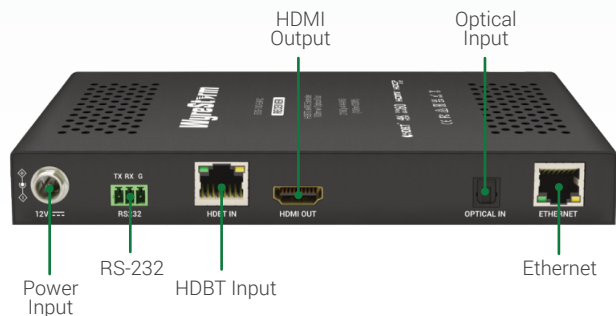
### EX3-100-EARC Transmitter (Rear)



### EX3-100-EARC Receiver (Front)



### EX3-100-EARC Receiver (Rear)



WyreStorm - Powerful. Reliable. Simple.

## Introduction

Extend 18Gbps A/V signals up to 100 meters over Cat6a with the EX3-100-EARC. This extender uses HDBaseT 3.0 technology, 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

- Uncompressed 18Gbps AV Signal Support: Experience top-notch video and audio quality with HDBaseT 3.0
- Backward Compatibility with ARC: Seamlessly integrate with existing ARC systems for hassle-free connectivity
- Bi-Directional IR and RS232 Transmission: Ensure reliable control and communication between your devices
- Optical Audio Return and Audio De-embed: Enjoy enhanced audio capabilities with optical audio return and the ability to separate audio from video signals
- Test Pattern Generation: Simplify troubleshooting with built-in test pattern generation

## In the Box

- 1x EX3-100-EARC
- 1x 12V Power Supply (US/UK/EU/AU)
- 1x IR Receiver Cable
- 1x IR Emitter Cable
- 8x Mounting Brackets with screws
- 2x 3-pin Phoenix Connector
- 1x Quickstart Guide

Specifications

Audio and Video		
	Transmitter	Receiver
Inputs	1x HDMI: 19-pin Type A Female	1x HDBT: 8-pin RJ45 1x Optical In
Outputs	1x HDBT: 8-pin RJ45 1x HDMI: 19-pin Type A Female 1x Optical Out	1x HDMI: 19-pin Type A Female
Max. Video Resolution by Cable Type	<b>Cat 5e/6 (UTP):</b> 40m/131ft - 4K@60Hz 4:4:4 24bpp <b>Cat 6A (F/FTP or U/FTP)</b> 100m/330ft - 4K@60Hz 4:4:4 24bpp  <b>Note:</b> When the extender is set to Low-bandwidth mode (set the pin3 of the DIP switch on the transmitter to “Down” position):  <b>Cat 5e/6 (UTP)</b> 70m/230ft - 4K@60Hz 4:4:4 24bpp <b>Cat 6A (F/FTP or U/FTP)</b> 100m/330ft - 4K@60Hz 4:4:4 24bpp	
Output Video Encoding	Format: HDBaseT Encoding Data Rate: 18Gbps End to End Latency: 10µs (microseconds)	
Audio Formats	<b>HDMI:</b> HDMI 2.0 formats including multi-channel PCM, Dolby True-HD and DTS-HD master audio <b>eARC Mode:</b> 5.1-ch compressed audio (such as Dolby Digital, DTS 5.1, and Dolby Digital Plus), and 2.0-ch uncompressed PCM audio <b>ARC Mode:</b> Up to 8-ch L-PCM of 24 bit, 192kHz audio. Supports encoded audio formats, such as Dolby Atmos and DTS-X <b>OPTICAL Audio Return Mode:</b> 5.1-ch compressed audio, such as Dolby Digital, DTS 5.1, and Dolby Digital Plus, and 2.0-ch uncompressed PCM audio <b>OPTICAL De-embed Mode:</b> 2.0-ch uncompressed PCM audio <b>AUDIO OUT:</b> PCM 2.0	
HDR Support	HDR 10, HDR 10+, HLG, and Dolby Vision (low-latency mode)	
Supported Standards	DCI   RGB   HDR10   Dolby Vision   HLG   BT.2020   BT.2100	
Maximum Pixel Clock	600Mhz	
Communication and Control		
HDMI	HDMI   HDCP 2.3   EDID   CEC Pass-through	
HDBaseT	HDMI   HDCP 2.3   EDID   RS-232 Pass-through   IR Pass-Through  2- WAY PoH   CEC Pass-through	
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	Ethernet Pass-through of up to 1Gb	
Power		
Power Supply	12V DC 2A (Sold separately)	
Power Consumption	20.04W	
Environmental		
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing	
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing	
Dimensions		
Length x Width x Height	300mm x 180mm x 25mm	
Weight	0.59Kg/1.30lbs	
Regulatory		
Safety and Emission	CE   FCC   RoHS   RCM   EAC   UKCA	

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

Warranty Information

WyreStorm Technologies ProAV Corporation warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the Product Warranty page on [wyrestorm.com](https://www.wyrestorm.com) for more details on our limited product warranty.

