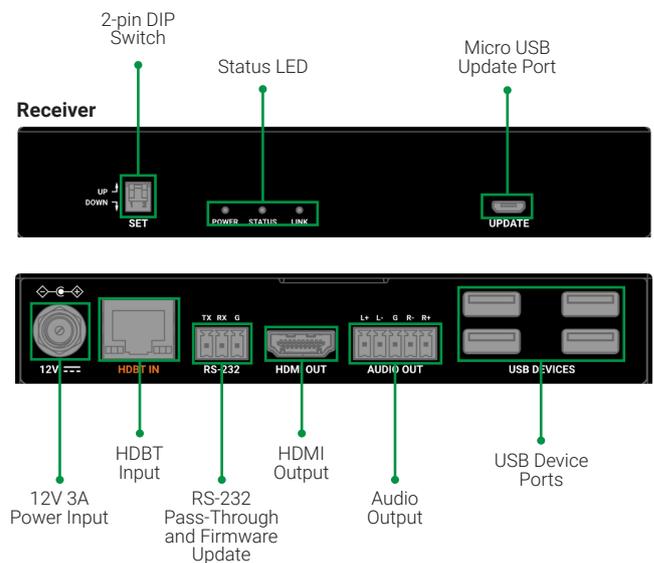
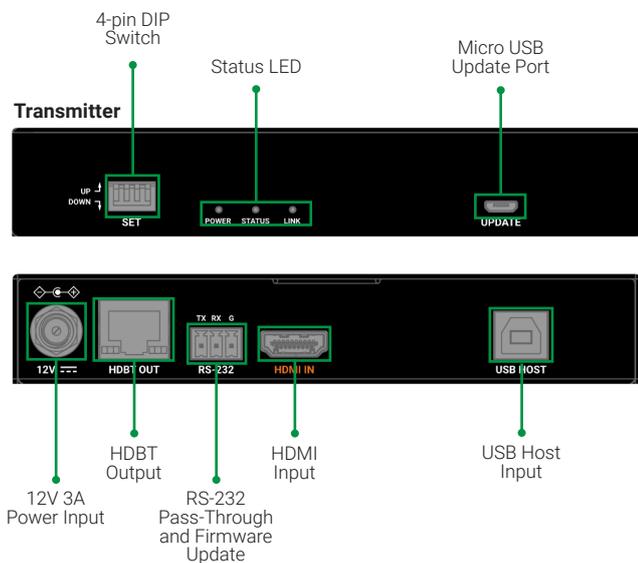


100m HDMI 2.1 8K HDBaseT Extender

EX-100-KVM-8K



WyreStorm - Powerful. Reliable. Simple.

Introduction

The EX-100-KVM-8K KVM Extender is a high-performance connectivity solution designed for multi-media conference halls and professional A/V environments, capable of extending HDMI 2.1 and USB 2.0 signals up to 100 meters (330 feet) over a single Cat6/6a/7 cable using HDBaseT. It supports ultra-high-definition video up to 8K@30Hz (or 8K@60Hz 4:2:0) and 4K@120Hz (4:4:4), with visually lossless VESA Display Stream Compression (DSC) ensuring signal quality. The system includes both a Transmitter (TX) and a Receiver (RX) unit, featuring RS232 pass-through for device control, integrated USB 2.0 extension for KVM functionality, balanced de-embedded audio output via a 5-pin phoenix connector, and convenient one-way Power over Cable (POC) from the RX to the TX unit.

Key Features

- HDCP Compliance: Supports HDCP 2.3 for secure content transmission.
- HDR Support: Compatible with HDR 10 for enhanced dynamic range and color depth.
- Audio Format Support: Supports high-fidelity audio, including up to 7.1ch formats like PCM 2.0/5.1/7.1ch, Dolby Digital, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, and DTS:X.
- EDID Management: Offers flexible EDID settings with support for both Copy EDID (from the display) and various Fixed EDID options (e.g., 4K@60Hz, 4K@30Hz, 1080@60Hz).
- Flexible Control: Features DIP switches on both the TX and RX units for easy setup of functions like EDID and HDCP handling, as well as switching between RS232 Passthrough and HDBT FW update modes.
- Firmware Update Options: Firmware can be updated via both RS232 and Micro USB ports.
- High USB Current: Each of the four USB device ports on the RX unit provides a maximum current of 1.25A.
- Durable Housing: Built with a sheet steel chassis and a black paint finish.
- Mounting: Designed for wall mounting using the provided mounting ears.

In the Box

- 1x EX-100-KVM-8K Extender Set
- 8x Mounting Ears
- 1x 12V DC Power Supply with UK/US/EU/AU Plug
- 2x 3pin Phoenix Terminal
- 1x 5pin Phoenix Terminal
- 1x Quickstart Guide

Specifications

Audio and Video			
Input/Output Signal Type	HDMI 2.1, HDCP 2.3		
Input/Output Resolutions	<p>VESA: 800 x 600⁶, 1024 x 768⁶, 1280 x 768⁶, 1280x 800⁶, 1280 x 960⁶, 1280 x 1024⁶, 1360 x 768⁶, 1366 x 768⁶, 1440 x 900⁶, 1600 x 900⁶, 1600 x 1200⁶, 1680 x 1050⁶, 1920 x 1200⁶, 2048 x 1152⁶, 2560 x 1440⁶, 5120 x 1440⁶, 5120 x 2160⁶</p> <p>HDTV: 1280 x 720P^{5,6,7,8}, 1920 x 1080P^{5,6,7,8,9,10,11}, 3840 x 2160P^{1,2,3,4,5,6,7,8}, 4096 x 2160P^{1,2,3,4,5,6,7,8}, 7680 x 4320P^{1,2,3,4,5,6}</p> <p>1 = at 24 (23.98) Hz, 2 = at 25 Hz, 3 = at 30 (29.97) Hz, 4 = at 48 Hz, 5 = at 50 Hz, 6 = 60 (59.94) Hz, 7 = at 100Hz, 8 = at 120Hz, 9 = at 144Hz, 10 = at 165Hz, 11 = at 240Hz</p> <p>Note: 7680 x 4320P @48Hz/50Hz/60Hz supports only YCbCr 4:2:0.</p>		
Maximum Data Rate	HDMI: 40Gbps USB 2.0: 255Mbps		
Maximum Pixel Clock	600MHz		
Audio Formats	<p>HDMI IN/OUT: Supports multichannel audio up to PCM 7.1, including PCM 2.0/5.1/7.1ch, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio and DTS:X</p> <p>AUDIO OUT: PCM 2.0</p>		
Transmission Distance	Cable Type	Range	Supported Video
	Cat 6/6A/7	100m/328ft	8K@60Hz 4:2:0 8K@30Hz 4:4:4
	Cat 5e	90m/295ft	8K@60Hz 4:2:0 8K@30Hz 4:4:4
	HDMI	Input/Output: 10m/33ft	4K@30Hz, 1080P@60Hz
Input: 5m/16ft Output:10m/33ft		4K@60Hz	
Input/Output: 3m/10ft		8K@60Hz 4:2:0	
Power			
Power Supply	DC 12V 3A		
Power Consumption (Maximum)	25W (per unit, via PoC)		
Environmental			
Operating Temperature	0°C to 45°C (32°F to 113°F)		
Storage Temperature	-20°C to 70°C (-4°F to 158°F)		
Humidity	10% to 90%, non-condensing		
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)		
Dimensions			
Height	25mm / 0.98in		
Width	145mm / 5.71in		
Depth	90.2mm / 3.55in		
Weight	0.86lb (0.39kg) per unit		
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.