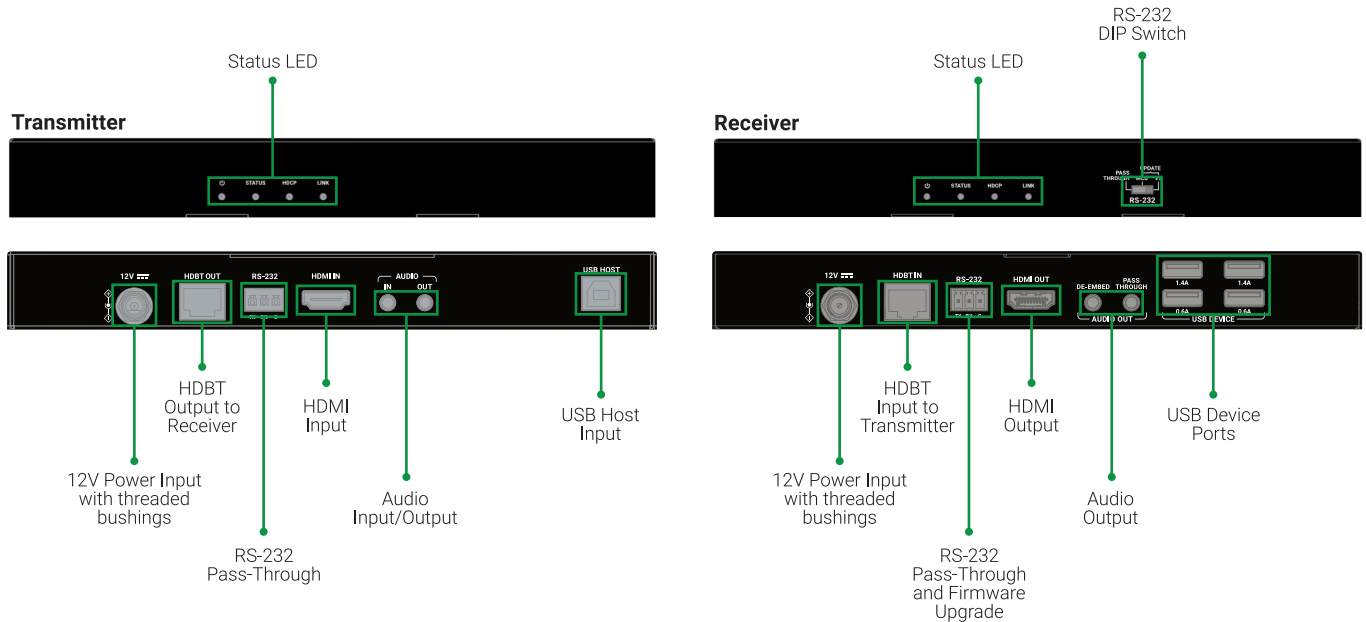


4K HDMI & USB Extender Kit over HDBaseT 2.0 with PoH

EX-100-KVM



WyreStorm - Powerful. Reliable. Simple.

Introduction

The EX-100-KVM is a professional-grade HDBaseT 2.0 extender kit designed for long-distance transmission of 4K and 1080p HDMI video, USB 2.0 signals (190Mbps), audio, PoH, and control. It features a transmitter (TX) and receiver (RX) combo that allows extension of uncompressed video and high-speed data up to 100m over a single Cat6/6a/7 cable. Ideal for applications requiring reliable KVM functionality, such as conference rooms, control centers, and education environments.

Key Features

- USB host/device connectivity offering data transfer capability of 190Mbps for connection of smart whiteboards, webcams or touchscreens
- Powerful HDBaseT 2.0 chipset supports delivery of 4K HDR video, stereo HD audio, bidirectional RS-232, CEC pass-through and USB 2.0
- 100-meter transmissions using Cat6a or higher
- Includes analog audio pass-through and audio de-embedding from the HDMI signal and PoH (TX>RX) for flexible and convenient installation

In the Box

1x Extender Set
1x DC 12V 3A Power Supply (US/EU/UK/AU)
4x Mounting Brackets with Screws
2x 3-pin 3.5mm Phoenix Connectors
1x Quickstart Guide

Specifications

Technical	
Input/Output Ports	Transmitter: 1x HDMI IN, 1x HDBT OUT, 1x RS232, 1x AUDIO IN, 1x AUDIO OUT, 1x USB HOST, 1x DC 12V IN Receiver: 1x HDBT IN, 1x HDMI OUT, 1x RS232, 2x AUDIO OUT (One for De-embed and another one for Pass-through), 4x USB DEVICE, 1 x DC 12V IN
Input/Output Signal Type	Transmitter: Input: HDMI 1.4 with 4K@60Hz 4:2:0 8bit, HDCP 2.2 Output: HDBT 2.0 Receiver: Input: HDBT 2.0 Output: HDMI 1.4 with 4K@60Hz 4:2:0 8bit, HDCP 2.2
Resolutions Supported	VESA: 800x600 ⁸ , 1024x768 ⁸ , 1280x768 ⁸ , 1280x800 ⁸ , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ⁸ , 1600x900 ⁸ , 1600x1200 ⁸ , 1680x1050 ⁸ , 1920x1200 ⁸ SMPT: 1280x720P ^{1,2,3,4,5,6,7,8} , 1920x1080P ^{6,8} , 1920x1080P ^{1,2,3,4,5,6,7,8} , 3840x2160 ^{2,3,5,6,8} , 4096x2160 ^{2,3,5,6,8} 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz NOTE: 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only
Maximum Pixel Clock	340MHz
Audio Formats	HDMI: Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X AUDIO IN/OUT: Stereo
Transmission Distance	Cat 5e: 100m/330ft 1080p@60Hz 90m/295ft 4K@30Hz 4:4:4, 24bpp 4K@60Hz 4:2:0, 24bpp Cat 6/6A/7: 100m/330ft 4K@30Hz 4:4:4, 24bpp 4K@60Hz 4:2:0, 24bpp
Power	
Power Supply	DC 12V/3A
Power Consumption (Maximum)	19W
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	17mm / 0.67in
Width	136mm / 5.35in
Depth	85mm / 3.35in
Weight	Transmitter: 0.44kg/0.97lb Receiver: 0.48kg/1.06lbs
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.