



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

Audio and Video			
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		
Supported Resolution	VESA: 800x600 [®] , 1024x768 [®] , 1280x768 [®] , 1280x800 [®] , 1360x768 [®] , 1366x768 [®] , 1440x900 [®] , 1600x900 [®] , 1600x1200 [®] , 1680x1050 [®] , 1920x1200 [®] SMPT: 1280x720P ^{1,2,3,4,5,6,7,8} , 1920x1080I ^{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		
Output Video Encoding	HDBaseT Class C		
Encoding Data Rate	10.2Gbps		
End to End Latency	10µs (micro seconds)		
Supported Standards	DCI RGB HDR HDR10 Dolby Vision up to 30Hz HLG BT.2020 BT.2100		
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 3840x2160p @30Hz 12bit 4:2:2 HDR
Communication and Control			
HDMI	HDMI HDCP 2.2 EDID CEC Pass-through DVI/D supported with adapter (not included)		
HDBaseT	HDMI HDCP 2.2 EDID Line Audio 1-way PoH (TX powers RX) Bidirectional RS-232 CEC		
RS-232	1x RS-232: 3-pin Phoenix (Transmitter and Receiver)		
USB	1x Type B (host) 4x Type A (device) Maximum uplink speed: 190Mbps		
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.