VigilLink

VLEX-HT2150DPK-TR

18Gbps DP over HDBaseT Extender 150 meters with KVM

This 4K60 DP Extender is designed to extend DisplayPort (DP) signals, bi-directional IR control signals, bi-directional RS-232 signals, and USB KVM signals over distances of up to 328ft/100m for 4K60 signals or 492ft/150m for 1080P signals using a single CAT6 cable. It converts DP signals to standard HDBaseT signals and transmits them through LAN cables. The extender facilitates easy control of signal source devices or display devices from the remote end through its bi-directional IR signal pass-through function. With support for DisplayPort 1.2, it enables the transmission of visually lossless, highly detailed 4K Ultra HD resolutions, making it ideal for captivating digital signage or detailed content in medical setups. Additionally, it supports lossless audio formats such as DolbyTrueHD and DTS-HD, enhancing the viewer's experience with powerful multi-channel sound. The inclusion of USB KVM connectivity allows for full control of a DisplayPort PC from a local console, ensuring seamless and consistent video content delivery to the display while

Feature Highlights

- DP 1.2a and HDCP 2.2 compliant for seamless compatibility
- Supports an impressive 21.6Gbps video bandwidth
- Capable of delivering stunning video resolution up to 4K2K@60Hz YUV 4:4:4
- Extend signal transmission distances up to 328ft/100m for 4K60 signals or 492ft/150m for 1080P signals via a single CAT6 cable
- Supports LPCM2.0 (96KHz), Dolby Digital Plus 5.1CH, and DTS-HD Master 7.1CH for immersive audio experiences
- Utilizes smart compression methods for visually lossless transmission quality
- Enables control of a single DisplayPort PC, keyboard, and mouse via KVM function
- Supports bi-directional IR, RS-232, and USB KVM signal pass-through for enhanced connectivity
- Features bi-directional Power over Cable (POC) function for added convenience
- Offers advanced EDID management for optimal display settings
- Boasts a compact design for effortless and flexible installation options

TECHNICAL

DP Compliance	DP 1.2a
HDCP Compliance	HDCP 2.2
Video Bandwidth	21.6Gbps
Video Resolution	Up to 4K@60Hz YUV 4:4:4
USB Compliance	USB 1.1
IR Level	5Vp-p
IR Frequency	Wideband 20K-60KHz
Transmission Distance	1080P@60--492ft/150m, 4K60--328ft/100m
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Color Depth	8/10/12bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Format	LPCM2.0 (96KHz), Dolby Digital Plus 5.1CH and DTS-HD Master 7.1CH
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter/Receiver: 140mm (W) × 65mm (D) × 18mm (H)
Weight	Transmitter: 241g, Receiver: 253g
Power Supply	DC 24V/1A; Support bi-directional POC function
Power Consumption	13.2W (Max.)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

CONNECTION

Transmitter	Input: 1 × HDMI IN [Type A, 19-pin female]
	Outputs: 1 × HDBaseT OUT [RJ45 connector]
	           1 × L/R OUT [3.5mm Stereo Mini-jack]
	Controls: 1 × IR IN [3.5mm Stereo Mini-jack]
	           1 × IR OUT [3.5mm Stereo Mini-jack]
	           1 × RS-232 [3pin-3.81mm Phoenix jack]
	           1 × SERVICE [Micro USB, 5-pin female]
	           1 × USB HOST [USB Type B]
	           2 × USB DEVICES [USB Type A]

CONNECTION

Receiver	Input: 1 × HDBaseT IN [RJ45, 8-pin female]
	Outputs: 1 × HDMI OUT [Type A, 19-pin female]
	           1 × L/R OUT [3.5mm Stereo Mini-jack]
	Controls: 1 × IR IN [3.5mm Stereo Mini-jack]
	           1 × IR OUT [3.5mm Stereo Mini-jack]
	           1 × RS-232 [3pin-3.81mm Phoenix jack]
	           1 × SERVICE [Micro USB, 5-pin female]
	           2 × USB DEVICES [USB Type A]

EDID Setting	EDID DIP switch is used for EDID setting. (Dial to COPY by default) COPY: Copy the EDID of the DP OUT port of Receiver STD: Default 1080P 2CH

Classic Application Example