VX4000S Series

zero-frame latency 4K60Hz AV over IP SDVOE Transceiver



Description

This transceiver is an SDVoE-Compliant. It provides highest-quality, uncompressed 4K and zero-frame latency audio / video extension over a standard 10G Copper or Fiber Network Switch. It can transfer advanced HDMI content such as HDR (high dynamic range), full color-depth and HD Bitstream audio.

Features

- Enables switching and extension of audio & video over standard Ethernet networks
- Compatible 4K60 RGB/4:4:4, HDR, 3D and broadcast-friendly 4K60 10-bit 4:2:2
- HDMI audio embedding, de-embedding and breakaway
- Independent switching with zero latency for all signal types
- Supports 10GBaseT copper infrastructure over category cabling
- Optical fiber transmission when paired with standard SFP+ modules
- Single device for transmitter (Tx) or receiver (Rx) products
- Point-to-Point extension

Specifications

Technical			
HDMI Compliance	HDMI 2.0		
HDCP Compliance	HDCP 2.2		
Encoding / Decoding Data	1080p @ 60Hz 8bit – 3.4Gbps 4K UHD @ 30Hz 4:4:4 8bit – 6.4Gbps 4K UHD @ 60Hz 4:4:4 8bit – 8.7Gbps (with light compression)		
Video Resolution (Max)	4096x2160p @ 60Hz 8bit 4:4:4 or RGB 3840x2160p @ 60Hz 12bit 4:2:2 Dolby Vision 3840x2160p @ 60Hz 10bit 4:2:2 HDR10/HLG 1920x1080p @ 60Hz 12bit		
Network Bandwidth	10Gbps		
Transmission Distance	70m (10G Copper transceiver over CAT6 cable) 100m (10G Copper transceiver over CAT6a/7 cable) 3m (10G SFP+ AOC cable) 550m (10G SFP+ Multimode transceiver over Multimode fiber) 10~80Km (10G SFP+ Single mode transceiver over Single mode fiber)		
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)		
Connection			
Input ports	1 x HDMI IN [Type A, 19-pin female] for Transmitter model		
Output ports	1 x HDMI OUT [Type A, 19-pin female] for Receiver model		
Network ports	1 x 10G BASE-T [RJ45 jack] for Copper model 1 x 10G SFP+ [Fiber slot] for Fiber model		
Mechanical			
Housing	Metal Enclosure		
Dimensions	85 x 68 x 28 mm		
Power Supply	DC Input: DC12V/1A PoE Input: IEEE802.3af (optional)		
Power Consumption	< 8W		
Operating Temperature	32 - 104°F / 0 - 40°C		
Storage Temperature	-4 - 140°F / -20 - 60°C		
Relative Humidity	20 - 90% RH (no-condensing)		
Resolution / Cable Length	**4K60 - Feet / Meters**	**4K30 - Feet / Meters**	**1080P60 - Feet / Meters**
HDMI IN / OUT	16ft / 5m	32ft / 10m	50ft / 15m
The use of “Premium High-Speed HDMI” cable is highly recommended.			

Order Information

Models	
VX4000S-TX-F	SDVOE AV over IP Transmitter Fiber
VX4000S-RX-F	SDVOE AV over IP Receiver Fiber
VX4000S-TX-C	SDVOE AV over IP Transmitter Copper
VX4000S-RX-C	SDVOE AV over IP Receiver Copper
VX4000S-TX-P	SDVOE AV over IP Transmitter Copper (PoE)
VX4000S-RX-P	SDVOE AV over IP Receiver Copper (PoE)