VigilLink

Long Range SDVoE Transceiver over Fiber
with Uncompressed HDMI 2.0 transmission up to 300/500M

This transceiver is an SDVoE-Compliant, All-In-One AV over IP solution that provides the highest-quality, uncompressed 4K and zero-frame audio/ video extension over a standard 10G Fiber Network Switch with instant switching, Video Wall, and Multiview functions. It can transfer advanced HDMI content such as HDR (high dynamic range), full-color depth, and multi-channel HD Bitstream audio. A flexible transceiver design (one box can be set to encoder or decoder) is much more convenient in an installation site and inventory control.   Multiple control and data signals can be simultaneously transmitted with audio and video, including bi-directional IR, RS-232, USB KVM, CEC, and 1G Ethernet.

Featured Highlights

- HDMI 2.0b and HDCP 2.2 compliant
- Supports video resolution up to 4K@60Hz 4:4:4, 18Gbps video bandwidth
- Flexible transceiver design (Encoder, Decoder, Copper, and Fiber port within a single box)
- Encoder or Decoder mode can be set via Button or API
- The Encoder supports HDMI Loop out
- Supports HDR10, Dolby Vision, HLG, 3D as well
- Supports complete HDMI audio formats, up to Dolby TrueHD, Dolby Atmos, and DTS-HD, DTS:X
- Supports Zero-Frame latency operating mode
- Supports signal extension, seamless switching, Matrix, Video Wall up to 9x9, and Multiview up to 25 windows
- Flexible audio routes control, including bidirectional analog audio transmissions between the Encoder and the Decoder
- Supports bi-directional IR and RS-232 control signal pass-through
- Supports USB2.0 (KVM), CEC routing control
- Supports IR, RS-232, TCP/IP, Web GUI control Standard POE supported (802.3at PD device)
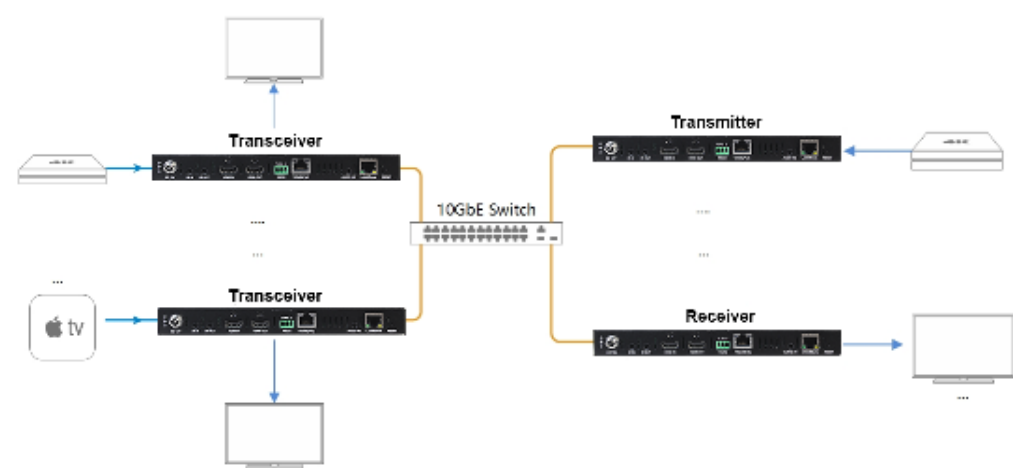
VIDEO/AUDIO

Input Connectors	1 x HDMI 2.0 1 x Unbalanced stereo audio 1 x 10GBase-T/1 x 10GBase-SR
Supported Input	HDMI in/Ethernet (10GBase-T, 10GBase-SR): [Video] 640x480[8], 800x600[8], 1024x768[8], 1280x1024[8], 1360x768[8], 1440x900[8], 1440x1050[8], 1600x1200[8], 720x480[7](480i59), 720x480[7](480p59), 720x576[6](576i50), 720x576[6](576p50), 1280x720[5](720p50), 1280x720[7](720p59), 1280x720[8](720p60), 1920x1080[6](1080i50), 1920x1080[7](1080i59), 1920x1080[8](1080i60), 1920x1080[1](1080p23), 1920x1080[2](1080p24), 1920x1080[3](1080p25), 1920x1080[4](1080p29), 1920x1080[5](1080p30), 1920x1080[6](1080p50), 1920x1080[7](1080p59), 1920x1080[8](1080p60), 3840x2160[1](2160p23), 3840x2160[2](2160p24), 3840x2160[3](2160p25), 3840x2160[4](2160p29), 3840x2160[5](2160p30), 3840x2160[5](2160p60), 4096x2160[5], 4096x2160[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 = 60 Hz, 9 = 75 Hz; [Audio] LPCM, 2.0/5.1/7.1 channel, 44.1/48/96/192 kHz Dolby True HD, up to 7.1,192kHz DTS-HD Master, up to 7.1,192kHz Dolby Digital AC-3 (DVD format) DTS version 1 (DVD format) Audio in: Unbalanced stereo audio
Output Connectors	1 x HDMI 2.0 1 x Unbalanced stereo audio 1 x 10GBase-T/1 x 10GBase-SR 1 x Dante, GbE

CONTROL

Ethernet	PC Configurator: for configuring, controlling and upgrading
RS232	PC Configurator: for testing and upgrading

AUDIO

Support Output	HDMI out/Ethernet (10GBase-T, 10GBase-SR): [Video] 640x480[8], 800x600[8], 1024x768[8], 1280x1024[8], 1360x768[8], 1440x900[8], 1440x1050[8], 1600x1200[8], 720x480[7](480i59), 720x480[7](480p59), 720x576[6](576i50), 720x576[6](576p50), 1280x720[5](720p50), 1280x720[7](720p59), 1280x720[8](720p60), 1920x1080[6](1080i50), 1920x1080[7](1080i59), 1920x1080[8](1080i60), 1920x1080[1](1080p23), 1920x1080[2](1080p24), 1920x1080[3](1080p25), 1920x1080[4](1080p29), 1920x1080[5](1080p30), 1920x1080[6](1080p50), 1920x1080[7](1080p59), 1920x1080[8](1080p60), 3840x2160[1](2160p23), 3840x2160[2](2160p24), 3840x2160[3](2160p25), 3840x2160[4](2160p29), 3840x2160[5]2160p30), 3840x2160[5](2160p60), 4096x2160[5], 4096x2160[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 = 60 Hz, 9 = 75 Hz; [Audio] LPCM, 2.0/5.1/7.1 channel, 44.1/48/96/192 kHz Dolby True HD, up to 7.1,192kHz DTS-HD Master, up to 7.1,192kHz Dolby Digital AC-3 (DVD format) DTS version 1 (DVD format) Dante audio(GbE port): Two channels PCM

MECHANICAL

Operating Temperature	0 to + 40°C (32 to + 104 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Humidity	10% to 90%, non-condensing
Product Weight	To be measured
Power Supply	12V DC converter (with lock) with US pin
Transport Distance	300m
Product Dimension	140mm x 215mm x 25mm (L x W x H)
ESD Protection	Human-body Model: ±8kV(Air-gap discharge)/±4kV(Contact discharge)

Classic Application Example

Applications — Medical equipment, AV broadcasting: such as conference rooms, retails, and Digital signage with interaction: such as shopping malls, hotels

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