



Ultra Compact HDMI 2.0 SDVoE Fiber AV Over IP Transmitter

Experience seamless AV signal distribution with the VLIP-SDFR-TX and VLIP-SDFR-RX extenders. Powered by SDVoE technology, these compact devices support true 4K/60Hz video with zero frame latency over 100 meters. Its ultra-small size (87mm x 64mm x 22mm) allows easy installation even in tight spaces. These extenders can be used in a point to point configuration, or connected to a 10G network switch along with a controller for full asymmetrical matrix capabilities

Featured Highlights

- Compact size and economical design
- HDMI 2.0 and HDCP 2.2 compliant
- Lossless distribution of most timing formats
- Light compression with the raw data rate exceeding 10Gb Ethernet bandwidth
- Supports input and output resolutions up to 4096x2160@60Hz 8-bit 4:4:4, 4096x2160@60Hz 10-bit 4:4:4 and 4096x2160@60Hz 12-bit 4:2:0 HDR
- Supports point-to-point transmission of 4K signal at the distance up to 300m
- Supports point-to-multipoint, multipoint-to-multipoint transmission via 10GbE switch at the distance of up to 300m (between a device and the switch)
- Zero-frame latency
- Required bandwidth: 6~8 Gbps for 4K, 3.2 Gbps for 1080P
- Compatible with Semtech BlueRiver AV Manager

| VIDEO | |
|-------------------|--|
| Input Connectors | 1 x HDMI |
| Supported Input | 640x480 ^s , 800x600 ^s , 1024x768 ^s , 1280x1024 ^s , 1360x768 ^s , 1440x900 ^s , 1440x1050 ^s , 1600x1200 ^s , 720x480 ⁱ (480i59), 720x480 ⁱ (480p59), 720x576 ⁱ (576i50), 720x576 ⁱ (576p50), 1280x720 ^s (720p50), 1280x720 ⁱ (720p59), 1280x720 ^s (720p60), 1920x1080 ⁱ (1080i50), 1920x1080 ⁱ (1080i59), 1920x1080 ^s (1080i60), 1920x1080 ⁱ (1080p23), 1920x1080 ⁱ (1080p24), 1920x1080 ^s (1080p25), 1920x1080 ⁱ (1080p29), 1920x1080 ^s (1080p30), 1920x1080 ⁱ (1080p50), 1920x1080 ⁱ (1080p59), 1920x1080 ^s (1080p60), 3840x2160 ⁱ (2160p23), 3840x2160 ⁱ (2160p24), 3840x2160 ^s (2160p25), 3840x2160 ⁱ (2160p29), 3840x2160 ^s (2160p30), 3840x2160 ⁱ (2160p60), 4096x2160 ^s , 4096x2160 ^s 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; |
| Output Connectors | 1 x SFP+, 10GBase-SR |
| Support Output | 640x480 ^s , 800x600 ^s , 1024x768 ^s , 1280x1024 ^s , 1360x768 ^s , 1440x900 ^s , 1440x1050 ^s , 1600x1200 ^s , 720x480 ⁱ (480i59), 720x480 ⁱ (480p59), 720x576 ⁱ (576i50), 720x576 ⁱ (576p50), 1280x720 ^s (720p50), 1280x720 ⁱ (720p59), 1280x720 ^s (720p60), 1920x1080 ⁱ (1080i50), 1920x1080 ⁱ (1080i59), 1920x1080 ^s (1080i60), 1920x1080 ⁱ (1080p23), 1920x1080 ⁱ (1080p24), 1920x1080 ^s (1080p25), 1920x1080 ⁱ (1080p29), 1920x1080 ^s (1080p30), 1920x1080 ⁱ (1080p50), 1920x1080 ⁱ (1080p59), 1920x1080 ^s (1080p60), 3840x2160 ⁱ (2160p23), 3840x2160 ⁱ (2160p24), 3840x2160 ^s (2160p25), 3840x2160 ⁱ (2160p29), 3840x2160 ^s (2160p30), 3840x2160 ⁱ (2160p60), 4096x2160 ^s , 4096x2160 ^s 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 | |
|-------------------|--|
| Input Connectors | 1 x HDMI |
| Supported Input | 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) |
| Output Connectors | 1 x SFP+, 10GBase-SR |
| Support Output | 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) |

| 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 | 5V 2A DC |
| Power Consumption | 4.5W |
| Transport Distance | 300m with OM-3 multi-mode optical fiber |
| Product Dimension | 87mm x 64mm x 22mm (L x W x H) |
| ESD Protection | Human-body Model: ±8kV(Air-gap discharge)/±4kV(Contact discharge) |

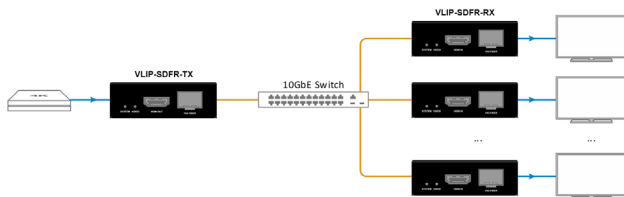
| CONTROL | |
|--------------------|--|
| Control Connectors | 1 x SFP+, 10GBase-SR, 10GbE |
| Control Method | Ethernet: PC software: for configuring, controlling and upgrading Web browser: for controlling API set: for integrating with the 3rd party control system |

Classic Application Example

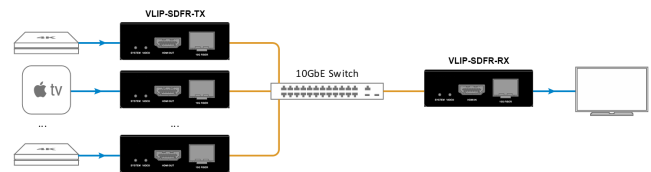
1. Point to point mode for residential and some direct connection application.



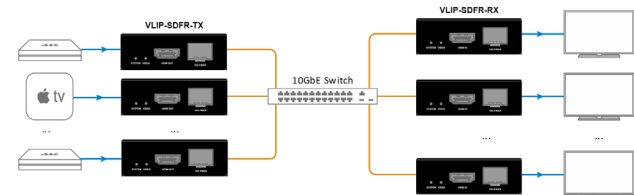
2. Point to multiple for commercial applications, for example, marketplaces and gymnasiums.



3. Multiple to point applications



4. Multiple to multiple for IP matrix switching



Applications

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