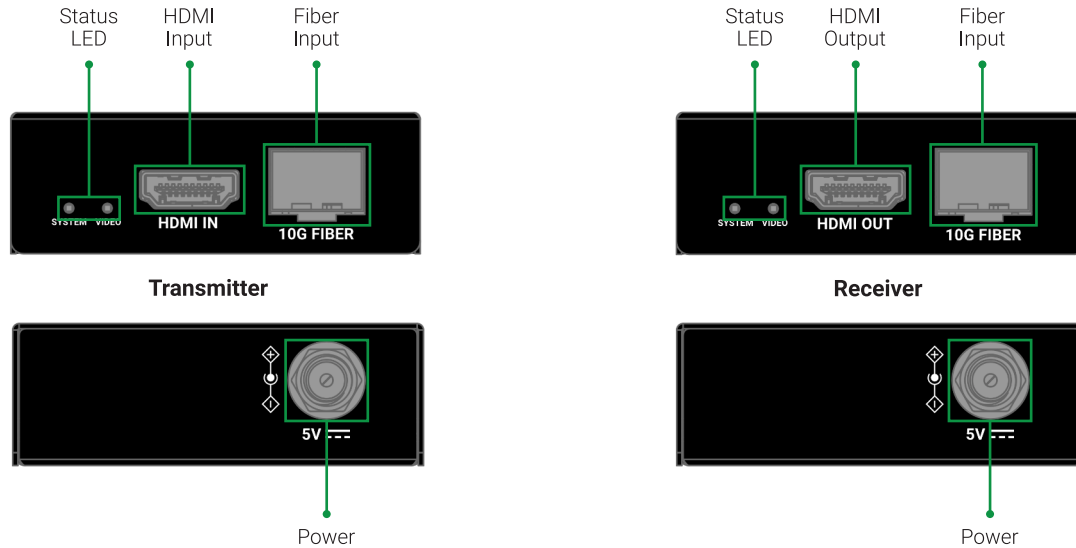


5K60Hz 4:2:0 SDVoE Fiber Extender

EXF-10KM-5K



WyreStorm - Powerful. Reliable. Simple.

Introduction

The EXF-10KM-5K Fiber Extender is a high-performance extender based on the SDVoE solution, specifically designed to transmit uncompressed 5120x1440p video and high-fidelity audio up to 10 kilometers (10KM) over a 10G fiber link. Its key advantage is zero end-to-end latency ($<120\mu s$), which is critical for real-time applications, combined with robust support for HDMI 2.0 and HDCP 2.2 standards, including high frame rates (up to 240Hz for 1080p). Built from durable sheet steel with secure screw-lock power connectors, this system ensures professional-grade reliability and pristine signal quality, making it an ideal choice for extending demanding video sources over long distances without any loss in fidelity or speed.

Key Features

- Uncompressed 5K transmission over a 10Gbps link (SDVoE solution)
- Zero End-to-End Latency ($<120\mu s$)
- Extended 10KM (6.2 miles) Transmission Distance using included single-mode fiber SFP+ transceivers
- Full support for high-fidelity audio (Dolby True HD, DTS-HD Master) with transparent EDID passing

In the Box

- 1x EXF-10KM-5K Extender Set
- 4x Mounting Ears with Screws
- 2x 5V 2A DC Power Supply with US/UK/EU/AU Pins
- 2x 10G SFP+ Single-Mode Optical Transceiver
- 1x Quickstart Guide

Specifications

Audio and Video	
Inputs	TX: 1x HDMI 2.0 (Type-A female) RX: 1x 10G FIBER (SFP+)
Outputs	TX: 1x 10G FIBER (SFP+) RX: 1x HDMI 2.0 (Type-A female)
Video Encoding	SDVoE / Non-compression
Fiber Data Rate	10Gbps
HDMI Data Rate	18Gbps
Audio Formats	LPCM (2.0/5.1/7.1 ch, 44.1/48/96/192 kHz) Dolby True HD (up to 7.1, 192kHz) DTS-HD Master (up to 7.1, 192kHz)
Video Resolutions (max)	5120x2160@60Hz (4:2:0), 5120x2160@30Hz (4:4:4), 5120x1440@30Hz (4:4:4), 4096x2160@60Hz (4:4:4), 3840x2160@60Hz (4:4:4) Supports 1080p up to 240Hz
Supported Standards	HDMI 2.0, HDCP 2.3, HDR10, HDR10+, HLG, Dolby Vision (low latency)
Performance	Zero end to end frame latency (<120µs)
Transmission Distance	10KM
Communication & Control	
EDID Setting	EDID Passthrough
Firmware Update	AVP Upgrader (Demo Tool) via Ethernet switch
Power	
Power Supply	5V DC 2A
DC Connector	5.5/2.1 DC connector with screw lock
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	22mm / 0.866"
Width	64mm / 2.52"
Depth	87mm / 3.43"
Weight	0.35lbs
Regulatory	
Safety and Emission	CE 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.

Warranty Information

WyreStorm ProAV Corporation warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the Product Warranty page on wyrestorm.com for more details on our limited product warranty.

