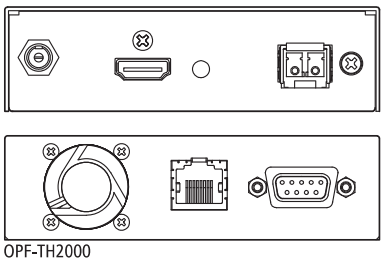
OPF-H2000

4K@60 HDMI Fiber Optic Extender

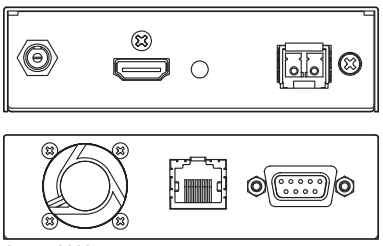
with your vision, Always.

The IDK OPF-H2000 Fiber optic extender is a transmitter and receiver set for long distance transmission of HDMI video, Gigabit ethernet signal, and bidirectional RS-232C control signals over fiber optic cabling. 4K@60 is supported. The input signals are transmitted pass through and without compression so that the image quality can be kept.

FRONT & REAR PANEL



OPF-TH2000



OPF-RH2000

FEATURES

Video:
- **Supports up to 4K@60 (4:2:0)**
- Extension distance
  - Multimode fiber (OM3): 493 ft. approx. (150 m)
  - Singlemode fiber (OS1): 4593 ft. approx. (1.4 km)

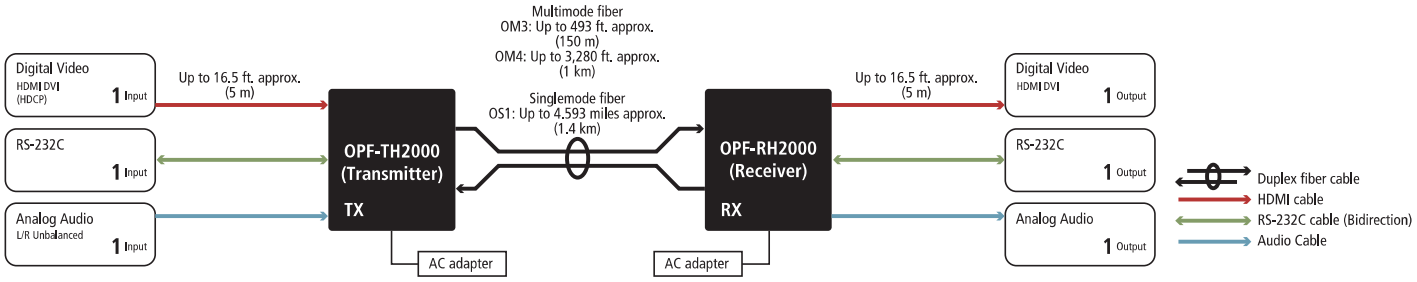
Others:
- Gigabit ethernet signal transmission
- Bidirectional communication via RS-232C and LAN

Control:
- HDCP (Pass through)
- CEC (Pass through)
- AC adapter mechanical lock

PRODUCT SELECTION

Model Number	Fiber Type	Max. Distance
OPF-TH2000-MM	Multimode	OM3: 493 ft. approx. (150 m)
OPF-RH2000-MM		
OPF-TH2000-SM	Singlemode	OS1: 4593 ft. approx. (1.4 km)
OPF-RH2000-SM		

CONNECTION DIAGRAM



SPECIFICATIONS

Model number				OPF-TH2000 (Transmitter)	OPF-RH2000 (Receiver)
Input	Video	Digital	Number / Signal	1 input / HDMI (HDCP 1.4: Pass through, CEC: Pass through) TMDS Single Link, TMDS clock: 25 MHz to 297 MHz	1 input / Optical signal for extension
			Connector	1 female HDMI Type A	2 LC connectors
		Others		Color depth: 24 bit, 30 bit, 36 bit Deep Color	
		Formats		480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K / VGA / SVGA / XGA / WXGA (1280x768) / WXGA (1280x800) / Quad-VGA / SXGA / WXGA (1360x768) / WXGA (1366x768) / SXGA+ / WXGA+ / WXGA++ / UXGA / WSXGA+ / WUXGA / QWXGA / 4K	
	Audio	Digital	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels	1 inputs / Optical signal for extension
			Connector	1 female HDMI Type A	2 LC connectors
Output	Video	Digital	Number / Signal	1 output / Optical signal for extension	1 output / HDMI (HDCP 1.4: Pass through, CEC: Pass through) TMDS Single Link, TMDS clock: 25 MHz to 297 MHz
			Connector	2 LC connectors	1 female HDMI Type A
		Others		Color depth: 24 bit, 30 bit, 36 bit Deep Color	
		Formats		480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K / VGA / SVGA / XGA / WXGA (1280x768) / WXGA (1280x800) / Quad-VGA / SXGA / WXGA (1360x768) / WXGA (1366x768) / SXGA+ / WXGA+ / WXGA++ / UXGA / WSXGA+ / WUXGA / QWXGA / 4K	
	Audio	Digital	Number / Signal	1 output / Optical signal for extension	1 output / Multi-channel linear PCM up to 8 channels
			Connector	2 LC connectors	1 female HDMI Type A
Plug & Play				Pass through	
Fiber optic cable	Suitable cable			Duplex fiber cable, SFP module (2 LC connectors)	
	Polishing			SFP for Multimode: PC (recommended) SFP for Singlemode: UPC (recommended), SPC supported * APC is not supported.	
Signal transmission distance				Multimode fiber (OM3): 493 ft. approx. (150 m), Singlemode fiber (OS1): 4593 ft. approx. (1.4 km)	
Control	Serial control port		Number / Signal	1 port / Full duplex up to 115.2 kbps	
			Connector	1 male 9-pin D-Sub	
	LAN control port		Number / Signal	1 port / 10Base-T, 100Base-TX, 1000Base-T (Auto Negotiation), Auto MDI / MDI-X	
			Connector	1 RJ-45	
Others	AC adapter			Input: 100 - 240 VAC ± 10%, 50 Hz / 60 Hz ± 3 Hz, Output: 5 VDC (AC adapter is supplied)	
	Power consumption			About 9 Watts	About 9 Watts
	Dimensions			4.17 (W) × 1.16 (H) × 4.72 (D)" approx. (106 (W) × 29.5 (H) × 120 (D) mm) (Quarter rack, not including projections)	
	Weight			0.88 lbs. approx. (0.4 kg)	
	Temperature			Operating temperature: 32°F to 104°F (0°C to +40°C) Storage temperature: -4°F to +176°F (-20°C to +80°C)	
	Humidity			Operating / Storage humidity: 20% to 90% (Non Condensing)	