OTR-1000
HDMI 2.0, USB, IR & RS-232 Over Fiber

OTR-1000

Features

- HDMI 2.0 long distance extension
- Resolution support up to 4K60, 4:4:4
- HDCP 2.2 compliant
- Small Form Pluggable fiber optic interface
- Up to 300 meters on MM fiber or up to 10Km on SM fiber
- Only duplex LC connection needed
- USB keyboard and mouse
- Bi-directional RS-232
- Bi-directional IR
- Compact flange-mount design

The OTR-1000 is a compact, but powerful fiber optic extender pair capable of extending high resolution video up to HDMI 2.0, 4K60, 4:4:4, 8 bit or HDR, 4K30, 4:2:0, 10 bit over fiber. Extend signals long distances up to 300 meters on MM fiber and up to 10 Km on SM fiber.   Along with the HDMI 2.0, USB (keyboard & mouse), bi-directional IR and bi-directional RS-232 can be sent on the same fiber cable for controlling remote displays, set-top boxes or any other devices that need to be controlled remotely. Additionally, the OTR-1000 is complaint with the latest HDCP 2.2 standards. The units are built with a solid stand-alone compact enclosure with mounting flanges, making it the perfect solution for any installation that might need wall, under desk or shelf mounting.

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Models

Model	Description
OTR-1000	Fiber optic extender link (tx & rx), HDMI 2.0, resolution support up to 4K60, 4:4:4, HDCP 2.2, USB keyboard & mouse, Bi-directional IR, Bi-directional RS-232, Up to 300 meters on duplex LC connectors, 12 VDC@2A included, Compact stand-alone enclosure

HDMI
IR IN
IR OUT
12VDC
USB
USB
DB-9
LC OPTICAL CONNECTORS
PWR LED
OPTICAL LINK LED

Specifications

Video Specifications	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2
Resolution Support	Up to 4K2K@60, 4:4:4, 8 bit or HDR, 4K2K@30, 4:2:0, 10 bit
Video Bandwidth	600 MHz, 18 Gbps
Input TMDS	1.2 Volts p-p
Input DDC Signal	5 Volts p-p, TTL

Optical Specifications	
Distance	Up to 300 meters
Fiber Type	MM (OM3 fiber recommended)
Fiber Connector	Duplex LC

Audio Specifications	
HDMI Audio	Surround sound up to 7.1 ch

Data/Control Specifications	
USB	Keyboard & Mouse
IR Pass-thru	20 KHz to 60 KHz, Bi-directional
Serial Data	RS-232

Mechanical Specification	
Enclosure type	Stand-alone
Dimensions (L x W x H)	4.5" x 6.13" x 1.12"
Weight	1.5 lbs
Mounting	Flange-mount

Power Specifications	
Power Supply	12 VDC@2A

Environmental Specifications	
Operating Temperature	0 to 50 C
Relative Humidity	30 to 90%, non-condensing
Storage Temperature	-20 to 60 C