

HDMI™ Digital Interface multimode fiber link with HDCP / EDID / CEC

FVT/FVR(X)MI[/M]









INCLUDED



The ComNet™ FVT/FVR(X)MI[/M] features an HDMI™ fiber link for uncompressed high-resolution bi-directional communication with full HDCP copyright protection, EDID and CEC connection functionality. The FVT/FVR(X)MI[/M] transmits pixel-forpixel images and full 24-bit scan rate with no contouring or bit reduction. Fully compatible with HDMI™ compliant sources and monitors, supporting all possible horizontal and vertical sync configurations. The FVT/FVR(X)MI[/M] transmits up to 8 channels of uncompressed audio at sample sizes of 16-bit, 20-bit and 24-bit, with sampling rates of 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz. This series also supports any IEC 61937-compliant compressed audio stream, such as Dolby Digital and DTS, and up to 8 channels of one-bit DSD audio (as used on SACD/ Super Audio CDs), and at rates up to four times that of Super Audio CD, and lossless compressed audio streams such as Dolby True HD and DTS-HD Master Audio.

FEATURES

- > Supports up to 1080p60
- > Scalable to HDMI Version 1.3a 16 bit color
- > Bi-directional communication for HDCP copyright, EDID and **CEC** functionality
- > HDCP encoding remains intact and unmodified
- > Fully uncompressed, 100% transparent, No Frame Dropping
- > Mounting Options:
- > Small stand-alone package (FVT/FVR1MI/M)
- > Optional ComNet model C1 rack
- > 1 RU racking system available
- > Power Supply Included
- > Locking cable screw prevents the connectors from accidental disconnection
- > Bi-color (Red/Green) LED status indicators provide rapid indication of critical operating parameters
- › Hot-Swappable Modules

- > ComFit Models are interchangeable between stand-alone or rack mount use
- > Small size units are designed as stand-alone for installations where space is at a premium.
- May be DIN-rail mounted by the addition of ComNet model DINBKT1 or DINBKT4 adaptor plate.
- > Lifetime Warranty

APPLICATIONS

- > Medical and MRI Displays
- > Advertising and Signage
- > Event Video Displays
- Digital Cinema
- > Radar Displays for ATC and Military Applications
- > Commodity and Stock Exchanges

SPECIFICATIONS

HDMITM

 $3.5 Gbps\colon 1920\times 1080p\ @\ 60 Hz\ up\ to\ 500 m$ Video Modes

1.65Gbps: 1920 × 1080p @ 30Hz up to 1000m

Scalable to HDMI Version 1.3a - 16 bit color

Connectors

Optical ST

Terminal Block Power HDMI™ Type A

Optical

Fiber Multimode

Wavelengths 778, 800, 825, 850, 911, 980 nm

Power 0 dBm per lane typical

Distance

(assumes no skew limit) $\leq 1080 p30$ 1080p60 OM1 (160 MHz/km) 200 m 100 m OM2 (500 MHz/km) 400 m 200 m OM3 (1000 MHz/km) 1000 m 500 m

LED Indicators: > Link > Source Cable > Source ON > Sink ON

Electrical & Mechanical

Mini Long

Surface Mount Power 8 to 15 VDC @ 0.125 A

Size (L×W×H) $4.08 \times 3.74 \times 1.1$ in $(10.36 \times 9.5 \times 2.8$ cm)

Shipping Weight <1 lb./0.45 kg

ComFit

Power

8 to 15 VDC @ 0.125 A (1CH) @ 0.250 A (2CH) Surface Mount Power

Rack Mount Power

Size (L×W×H) $6.1 \times 5.3 \times 1.1$ in $(15.5 \times 13.5 \times 2.8$ cm)

Shipping Weight < 2 lb / 0.9 kg

Automatic Resettable Solid-State Current Limiters **Current Protection**

Circuit Board Meets IPC Standard

Environmental

MTRF >100,000 hours **Operating Temp** -40° C to +75° C Storage Temp -40° C to $+85^{\circ}$ C

Relative Humidity 0% to 95% (non-condensing)1









ORDERING INFORMATION

Part Number	Description	Fibers Required	Optical Pwr Budget	Maximum Distance ²	# Rack Slots
FVT1MI	HDMI™ Transmitter - Single Channel	1	14 dB min., 16 dB typ.	1000m (3280 ft)	1
FVT2MI	HDMI™ Transmitter - Dual Channel	2	14 dB min., 16 dB typ.	1000m (3280 ft)	11
FVR1MI	HDMI™ Receiver - Single Channel	1	14 dB min., 16 dB typ.	1000m (3280 ft)	
FVR2MI	HDMI™ Receiver - Dual Channel	2	14 dB min., 16 dB typ.	1000m (3280 ft)	1
FVTRMI	HDMI™ Transceiver - 1 Channel Transmitter, 1 Channel Receiver	2	14 dB min., 16 dB typ.	1000m (3280 ft)	1
FVT1MI/M	Mini HDMI™ Transmitter - Single Channel	1	14 dB min., 16 dB typ.	1000m (3280 ft)	NA
FVR1MI/M	Mini HDMI™ Receiver - Single Channel	1	14 dB min., 16 dB typ.	1000m (3280 ft)	NA
Accessories Options	DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included) [1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (extra charge, consult factory) DIN-Rail Mounting Adaptor Plate Kit - With mounting hardware (Optional, order model DINBKT1 or DINBKT4)				

[2] Maximum distance requires OM3 grade fiber running at resolutions of 1080p30 or lower at 1.65 Gbps.

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

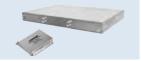
RACK OPTIONS

C1

19 in wide × 4 RU high, 14 slot with internal power supply



19 in wide × 1 RU high, 3 slot, **C**3 for use with external power supply



TYPICAL APPLICATION







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