



DigiViewTM Series



MT/MR-1DM-SFP

4K HDMI Optical Transceiver
using Small Form Pluggable (SFP)
Optical Device

User Manual

FEATURES

- Supports 4K (UHD) HDMI Video up to 3840*2160@30Hz
- Supports 3D Video Signal
- Compliant with HDMI 1.4a
- Transmitter module can capture the EDID information from any display and store it in cash memory for future use
- Supports up to 300m Transmission Distance with OM3 multimode fiber
- Supports up to 2Km (standard), 60Km max. Transmission Distance with single-mode fiber
- CWDM wavelengths selection available by using appropriate SFP module
- Supports 10G SFP+ modules
- Standard HDMI Connector
- Built-in ESD protection system;
- Simple to install, plug and play
- Hot-Pluggable
- EMI/RFI Resistant

DESCRIPTION

The Meridian **MT/MR-1DM-SFP** are HDMI optical transmitter and receiver, designed to send 1 channel of 1.4a compliant HDMI Video with embedded audio over **One Optical Fiber**, using Small Form Pluggable (SFP) optical modules.

The SFP modules give you the option for either single-mode, multimode or CWDM wavelength selections by simply plugging-in the appropriate SFP module.

The HDMI optical transceiver supports transmission of an uncompressed lossless HDMI 1.4a signal over OM3 multimode optical fiber at 850nm, for distances up to 300 meters or single-mode optical fiber 1310nm - up to 2Km (standard) with maximum distance up to 60Km.

Transmitter converts an HDMI signal to a single 10Gb/s serial data stream for transmission over one optical fiber.

Receiver converts the serial data back to an HDMI signal.

This product is ideal for large-screen displays, conferencing systems and home entertainment.

This fiber link meets all of the standards of interference immunity, to ensure the stability of the signal.



PORTS AND INDICATORS

Port name	Transmitter	Receiver
HDMI interface	HDMI signal input	HDMI signal output
RESET	Learn EDID Button	System reset button
POWER	DC Power plug 5.5mm (5VDC)	DC Power plug 5.5mm (5VDC)
SFP	SFP module - LC connector	SFP module - LC connector
LED indicator		
D1	ON:Power on	ON:Power on
D2	When EDID BUTTON pressed, The LED will flash for 3 seconds	Reserve
D3	Optical Signal ON: LOS	Optical Signal ON: LOS / OFF: OK
D4	Blinking: The Source is connected	Blinking: The monitor is connected

CONNECTING AND OPERATING MT/MR-1DM-SFP

Video

1. Connect HDMI cable between the Ultra Hi-DEF source and the HDMI Input port on the Transmitter unit.
2. Connect an Ultra HD display to the HDMI Out port on the Receiver unit using another HDMI cable.

Fiber

3. Connect an LC fiber optic cable between the Tx Fiber port on the Transmitter unit and the Rx Fiber port on the Receiver unit.

Power

4. Use the included power supplies to connect the Transmitter and Receiver unit to available electrical outlets.



INSTRUCTIONS FOR LEARNING EDID

1. Apply power to the display.
2. Connect the MT-1DM-SFP Transmitter to the display's DVI or HDMI input port.
3. Connect the External AC Power Adapter to the Transmitter unit.
4. On the Transmitter unit, Press the RESET (Learn EDID) button. If the EDID is properly read, the D2 Indicator LED should blink once.
5. Remove the External AC Power Adapter from the Transmitter unit.
6. Disconnect the Transmitter unit from the display and connect it to the DVI or HDMI signal source device.

ORDERING INFORMATION

Part Number	Description
MT-1DM-SFP	4K UHD HDMI Fiber Optic Transmitter
MR-1DM-SFP	4K UHD HDMI Fiber Optic Receiver

PACKING LIST

- 1 x 4K UHD HDMI Fiber Optic Transmitter
- 1 x 4K UHD HDMI Fiber Optic Receiver
- 2 x 5V/2A DC power supplies
- 1 x User manual

LIMITED WARRANTY

Meridian Technologies warrants this product to be in good working order for a period of two years from the date of purchase. If this product is not in good working order as warranted above, or should this product fail to be in good working order at any time during the warranty period, Meridian Technologies shall provide repair or replacement.

This warranty does not cover incidental or consequential damages incurred by consumer misuse, or modification of said product. For limited warranty service during the warranty period, please contact the retailer/distributor or call (516) 285-1000 to obtain an RMA number and instructions for returning the product.

The information contained herein is provided to the user as a convenience. While every effort has been made to ensure accuracy, Meridian Technologies is not responsible for damages that might occur because of errors or omissions, including any loss of profit or other commercial damage. The specifications described herein were current at the time of publication, but are subject to change at any time without prior notice.



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