

Digitally-Encoded DVI Video Transmission System



MT-1DV

MR-1DV



FEATURES:

- Digital transmission of DVI Video over one multimode or singlemode fiber
- Supports VGA, SVGA, XGA, SXGA & UXGA (640x480x60Hz to 1920x1200x60Hz)
- 1080p HDTV resolution
- Uses all-digital processing & transmission for crystal-clear signals and no color skewing
- Real-time video transmission for exceptional quality & resolution – no video compression
- Requires no adjustments, equalization or de-skewing during setup
- Data throughput in excess of 6 Gbps (uncompressed)
- Most systems have 1.25 Gbps throughput with significant compression
- DDC (Data Display Channel) and HDCP optional
- Standard DVI-D video connector
- Wide optical dynamic range: Eliminates need for optical attenuators
- Singlemode Laser Based System
- Operation up to 25Km
- Diagnostic LEDs for Power and Link status

DESCRIPTION:

Meridian's MT/MR-1DV-x small stand-alone module is part of Meridian's DigiView™ product family.

This state-of-the-art, cost-effective, high performance video transmission system transmits fully-compliant DVI.

This product provides real-time, digitized transmission of DVI video over one single-mode or multimode fiber.

Because it transmits signals in real-time, no video information is lost and is a perfect solution for dynamic video signals with crystal clear video and no color pixel skewing.

Optional features include:

- Data Display Channel (DDC)
- High Definition Content Protection (HDCP)

Note: Options available for Mouse, Keyboard and Audio. Compatible with ST/SR-1DV-x card.

CONFIGURATIONS:

This MT/MR-1DV-x product is available in small stand-alone module for easy mounting on walls, shelves and other convenient flat surfaces.

MARKETS:

- ✓ Courtrooms
- ✓ Medical & MRI displays
- ✓ Air traffic control
- ✓ Military information displays
- ✓ Stock exchanges
- ✓ Concert & sporting event video displays
- ✓ Video walls
- ✓ CAD / CAM

SPECIFICATIONS:

Video

Number of Video Channels	Single link DVI-D
Resolution Range (DVI)	640x480x60 to 1920x1200x60
HDTV Resolution support (DVI)	480p, 720p, 1080i, 1080p
Color Depth	24-bits, no compression or scaling

Optical

Number of fibers	1
Fiber type	Multimode, Singlemode
Operating distance	Up to 25km*
Data Rate	6.25Gb/s

Connectors

Video	DVI-D (female) 18pin
Optical	LC
Power	See SR series chassis for details

Power **

Card	3 Watts
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Indicators (LEDs)

Power	Green
Tx carrier	Blue (Rapid Blink - Boot, Steady ON - Link)
Rx carrier	Blue (Rapid Blink - Boot, Gradual Blink - Fiber Disconnected Steady ON - Link)

Physical

Dimensions (Card)	1.54" x 2.96" x 0.57" 39mm x 75mm x 14.5mm
Weight (Card)	100 gms (3.4 Oz)

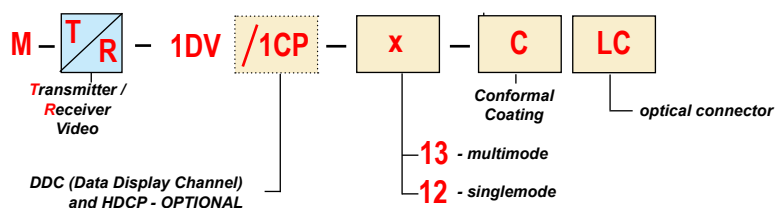
Enviromental

Operating Temperature	-10°C to +50°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

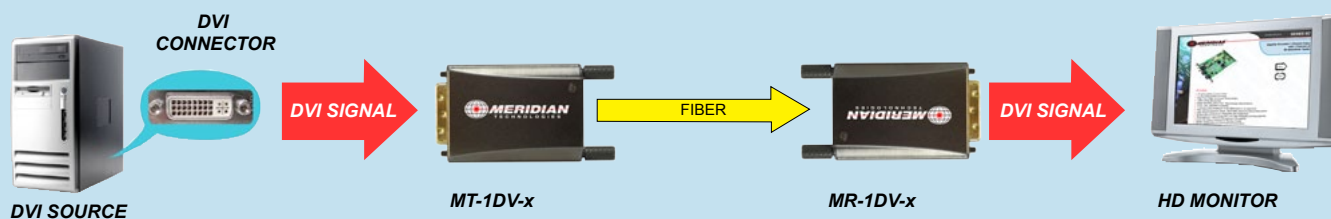
Quality

MTBF	>150,000 hours @ Ground Fix 35°C per MIL217F
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Part Numbers:



* Based on maximum resolution & fiber bandwidth
 ** Due to variations of drivers and diagnostic options,
 power shown @ max value



OPTICAL:

Meridian Fiber Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Estimated Maximum Transmission Distance (km)
13	Multimode (Laser) 9 / 125	-5	-17	12	850/1310/1550	LC	20	0.3
12	Singlemode (FP Laser) 9 / 125	-5	-17	12	1310/1490/1550	LC	20	25