

Digitally Encoded Eight 10-Bit 7MHz Video Mux
 using the Industry Standard Small Form
 Pluggable (SFP) Optical Device



FEATURES

- 10-Bit 7 MHz Video Digital Encoding
- Real Time Video and Data Transmission
- Low Power Consumption
- High Efficiency, Isolated Power Supply
- NTSC, PAL, SECAM Compatible
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- SpectraSmart™ PC Based Network Management
- SpectraView™ Fault / Setup Firmware
- Local LED Status Indicators to Monitor Critical System Parameters
- LC, SC Optical Connector (SFP dependent)
- Hot Swappable Cards
- 75 Ohm BNC Video Connector (Gold Center Pin)

DESCRIPTION

The FT/FR-8W-SFP fiber optic transmission system incorporates Meridian's new digital encoding technology and transmits eight channels of real-time 10-Bit Video, using the industry standard Small Form Pluggable (SFP) optical device. The SFP modules give you the option for either singlemode, multimode or CWDM wavelength selections by simply plugging-in the appropriate SFP module.

The versatility of the FT/FR-8W-SFP system is enhanced by *SpectraView*, an On-Screen Video Diagnostic / Setup firmware system and *SpectraSmart*, an optional PC Based Network Diagnostic System. *SpectraView* monitors the integrity of the video signal and the fiber link. A break in the fiber path will cause a loss of fiber alarm to be displayed on an associated monitor. *SpectraView* is easy to use, always active and eliminates the need for additional test equipment. *SpectraView* also includes a selectable on-board data test signal generator with built-in local and remote loop-back functions. If greater diagnostic capability is required, the functionality of FT/FR-8W-SFP series is further enhanced by its compatibility with Meridian's PC based SpectraSmart™, Network Management and Remote Diagnostic Software System. SpectraSmart supervises the operating parameters of the transmission system such as status on video levels, sync, carrier detect, voltage, temperature, optical levels, etc. See the SpectraSmart brochure for more details.

CONFIGURATIONS

The DigiCool™ product family is available as rack mount cards and modules that can be installed in Meridian's card chassis, desk chassis and 1U or 3U standard racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be made a standalone system by using the SR-1000/s, 2 slot desk / wall mount chassis (87VAC-264VAC)

MARKETS

- √ Security and Surveillance
- √ Intelligent Transportation System (ITS)
- √ Access Control Systems
- √ Campus Lecture Networks

SPECIFICATIONS:

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max.
Bandwidth	5 Hz to 7 MHz @ -3 dB
Differential Gain	<0.6%
Differential Phase	<0.3°
SNR	>67 dB (weighted)*
Return Loss	>30 dB
Field Tilt	< 0.5%

Optical

Fiber Data Rate	1800 Mb/s
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Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	LC, SC (SFP dependent)
Power (module)	See SR-1002 Data Sheet for details

Power **

Card	8 Watts
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Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
8 - Bi-color	Video Present / Overload
8 - Bi-color	Sync. Present / Load Absent
4 - Green	Data Present

Physical

Dimensions (Card)	160 mm (6.3") L, 127 mm (5") W 44mm (1.7") H
Weight (Card)	450 gms (16 Oz)
No. of Slots	2
Module	See SR-1000 Brochure

Enviromental

Operating Temperature ...	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

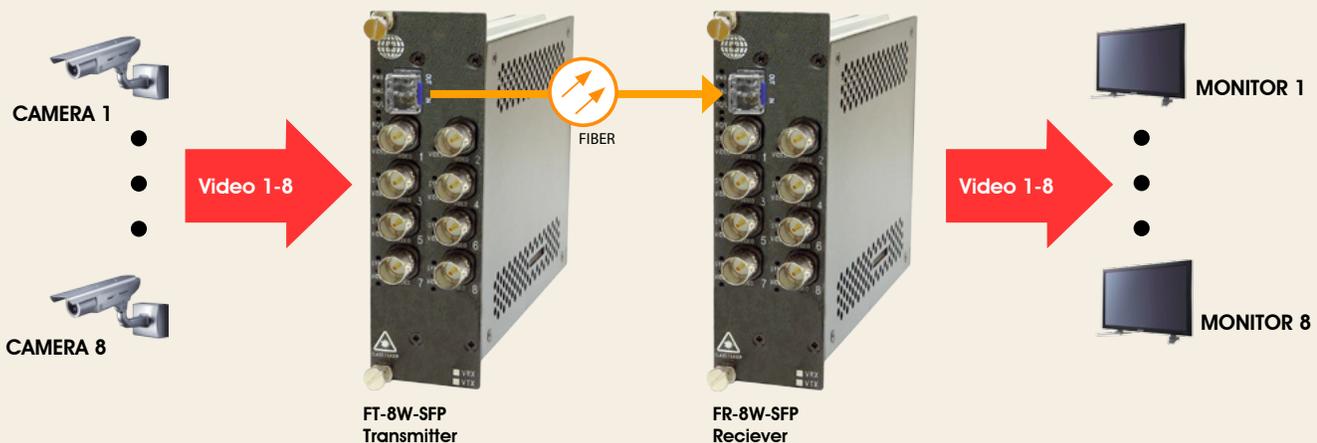
MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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Part Numbers:



* measured @ max. optical budget

** Due to variations of drivers and diagnostic options, power shown @ max value



SFP OPTIONS:

The SFP series products are available for both singlemode and multimode fiber applications and either one or two fiber versions.

Recommended optical speed for this product is 1.25 Gb/s.

For more specifications on a SFP optical devices go to **SFP data sheet** or visit:

WWW.MERIDIAN-TECH.COM -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES