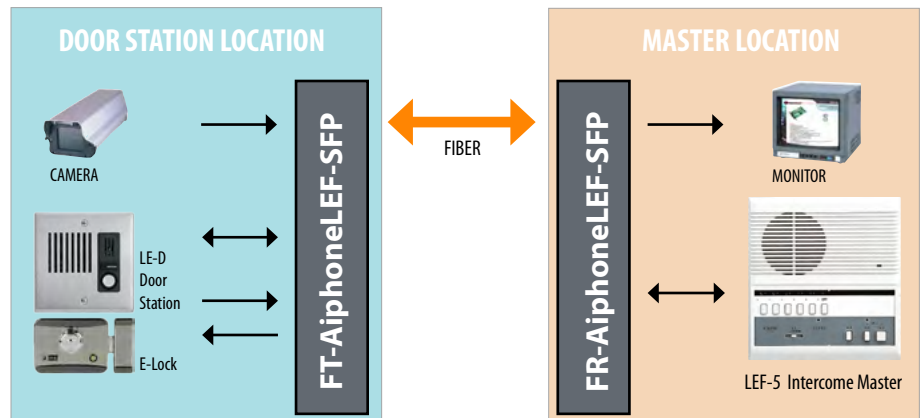


Aiphone LEF & LEM Compatible Digitally Encoded Fiber Transmission System with One Channel Video, Bi-directional Audio and Contact Closures using the Industry Standard Small Form Pluggable (SFP) Optical Device



FEATURES:

- Aiphone LEF & LEM system compatible
- 10 Bit Video Digital Encoding
- 7 MHz Video Bandwidth
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Bi-Directional Contact Closures & half-duplex Audio
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Singlemode via SFP modules
- SpectraSmart™ PC Based Network Management
- SpectraView™ Fault / Setup Firmware
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- LC, SC Optical Connector (SFP dependent)
- Hot Swappable Cards
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats Specs
- Convenient Screw Terminals for Audio & Contacts

MARKETS:

- ✓ Security and surveillance
- ✓ Access Control

DESCRIPTION:

This card is designed specifically to work seamlessly with the Aiphone LEF & LEM series intercom systems over multimode or singlemode optical fiber. The card features one channel of 10-bit, high resolution fixed video, one bi-directional channel of intercom-compatible audio and one bi-directional Contact Closures for push-to-call and gate or access control. This product incorporates the industry standard Small Form Pluggable (SFP) optical device. This SFP gives you the option for either singlemode, multimode or CWDM wavelength selections by simply plugging in the appropriate SFP module. The versatility of this card 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 while loss of video sync will generate a loss of sync alarm on the monitor. SpectraView is easy to use, always active and minimizes the need for additional test equipment. In addition a video grey scale function is included to assist in monitor and system setup. If greater diagnostic capability is required, Meridian's SpectraSmart™ Network management and diagnostic PC based system is available. See the SpectraSmart or SpectraView brochures for additional details.

CONFIGURATIONS:

The DigiCool™ product family is available as rack mount cards and modules that can be installed in any of Meridian's desk chassis or in 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be transformed in to a standalone module by utilizing an SR-500 (standard configuration) or an SR-1002 subrack frames.

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%

Contact Closure

Formats	Normally Open (N.O.) or Normally Closed (N.C.) - jumper selectable
Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms

Audio

I/O Impedance.....	4-8 Ohm Unbalanced
I/O Level	-40 to +15 dBm
Frequency Response	10 Hz to 15 KHz
THD	<0.1%, 1 KHz @ max modulation
SNR	>65 dB (weighted)*

Optical

Fiber Data Rate	250 Mb/s
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Connectors

Optical	LC, SC - SFP dependent
Power (module)	See SR-500 Brochure for Details
Audio/Contact Closures	14pin Screw Terminals

Power **

Card	6 Watts
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Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Error
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	Video Present / Overload
1 - Green	Video Sync. Present
2 - Bi-Color	Audio Present / Overmodulation
2 - Green	Contact Closure Present

Physical

Dimensions (Card)	160 mm (6.3") L, 127 mm (5") W 20mm (0.80") W
Weight (Card)	450 gms (16 Oz)
No. of Slots	1
Module	See SR-500 Brochure

Environmental

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

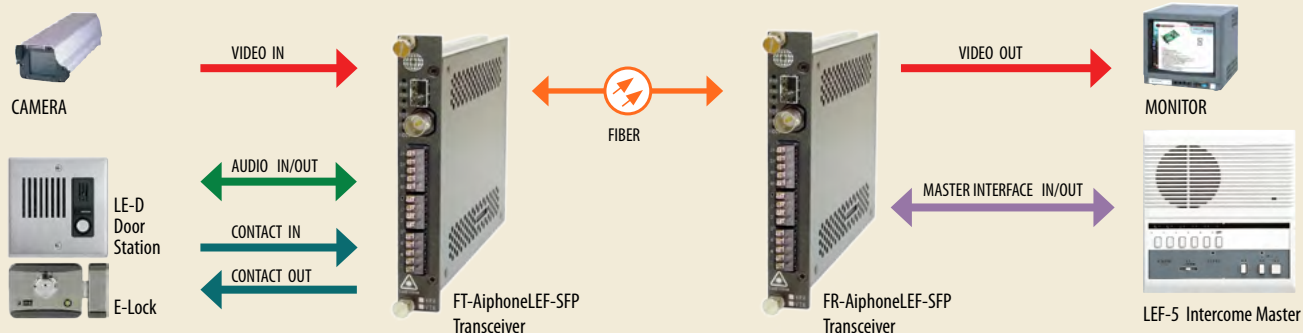
Quality

MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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* measured @ max. optical budget

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

Part Numbers



SFP OPTIONS:

The SFP series products are available for both singlemode and multimode fiber applications and ether one or two fiber versions. Recommended optical speed for this product is 155 Mb/s.

For more specifications on a SFP optical devices go to [SFP data sheet](#) clicking or go to:

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