DESCRIPTION:
The Meridian FT/FR-IS-MV-x product provides a simple, compact fiber optic transport system which seamlessly interfaces the Aiphone IS master stations with the IS CCU or other exchange units hardwire interconnect applications.

The high-quality, cost-effective transport system provides a long distance solution for campuses, parking lots, stairwells, and other remote locations.

This product series ensures an easy, user-friendly interface between the Aiphone IS Series equipment and the fiber optic infrastructure for hardwire Aiphone IS applications.

A single RJ45 connection is used to interface this Meridian unit with the corresponding Aiphone equipment. These products are available for operation over one multimode or singlemode fiber.

CONFIGURATIONS:
This product series is available as rack mount cards that can be installed in any of Meridian's desk chassis or in 19" racking frames. This system can be transformed in to a standalone module by utilizing Meridian's SR-500 chassis frame.

MARKETS:
- Security and surveillance
- Access Control

FEATURES:
- Compatible with Aiphone IS series exchange-based installations (IS-CCU)
- Single RJ45 connector interface
- Real Time Video, Audio and Control Function Transmission
- One-way Video channel
- Bi-directional Audio
- Embedded Data channel for signal flow control
- Wide operating temperature range ideal for outdoor installations
- Wide Optical Dynamic Range: Eliminates need for optical attenuators
- Controlled laser output for stable operation
- Local LED Status Indicators to monitor critical diagnostic & performance parameters
- ST, FC Optical Connector
- Hot Swappable Cards
**SPECIFICATIONS:**

### Interface and compatibility
- Master station interface: IS series exchange-based units
- Control unit compatibility: IS-CCU & IS-SCU

### Connectors
- Input/output: RJ45 (shielded)
- Optical: ST (multimode), ST or FC (singlenode)

### Optical
- Fiber Data Rate: 350 Mb/s

### Power **
- Card: 4 Watts

### Indicators (LEDs)
- 1 - Green: Power On
- 1 - Bi-color: TX Carrier/ Laser Over Current
- 1 - Bi-color: RX Carrier - Present / Error
- 1 - Green: Video Present
- 1 - Green: Sync. Present
- 1 - Green: Tx Audio Input
- 1 - Green: Rx Audio Input
- 1 - Green: Tx Data Input
- 1 - Green: Rx Data Output

* measured @ max. optical budget
** Due to variations of drivers and diagnostic options, power shown @ max value

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

### Part Numbers:
- **F**: TRANSMITTER VIDEO
- **T**: RECEIVER VIDEO
- **IS**: MULTIMODE CONNECTOR
- **MV**: SINGLENODE CONNECTOR
- **C**: CONFORMAL COATING
- **ST**: MULTIMODE CONNECTOR
- **FC or ST**: SINGLEMODE CONNECTOR

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**OPTICAL:**

<table>
<thead>
<tr>
<th>Fiber Type/Size (um)</th>
<th>Optical Output (dBm)</th>
<th>Receiver Sensitivity (dBm)</th>
<th>Optical Budget (dB)</th>
<th>Wavelength (nm)</th>
<th>Optical Connector</th>
<th>Optical Dynamic Range (dB)</th>
<th>Estimated Maximum Transmission Distance (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multimode (FP Laser) 62.5 / 125</td>
<td>-5</td>
<td>-25</td>
<td>20</td>
<td>1300 / 850</td>
<td>ST</td>
<td>25</td>
<td>3</td>
</tr>
<tr>
<td>Singlemode (FP Laser) 9 / 125</td>
<td>-5</td>
<td>-25</td>
<td>20</td>
<td>1310 / 1550</td>
<td>ST, FC</td>
<td>25</td>
<td>60</td>
</tr>
</tbody>
</table>

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