**DESCRIPTION:**
The Meridian FT/FR-IS-DV-x product provides a simple, compact fiber optic transport system which seamlessly interfaces the Aiphone IS door 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.

**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

**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 into a standalone module by utilizing Meridian’s SR-500 chassis frame.

**MARKETS:**
- Security and surveillance
- Access Control
SPECIFICATIONS:

**Interface and compatibility**
- Door station interface: IS series exchange-based units
- Control unit compatibility: IS-CCU, IS-SCU & IS-RCU

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

**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 Output
- 1 - Green: Tx Data Input
- 1 - Green: Rx Data Output

* measured @ max. optical budget

**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

**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 MIL-217F

**Part Numbers:**
- **F** - TRANSMITTER
- **IS** - RECEIVER
- **DV** - MULTIMODE CONNECTOR
- **C** - SINGLEMODE CONNECTOR
- **ST** - MULTIMODE CONNECTOR
- **FC or ST** - SINGLEMODE CONNECTOR

**FIBER-OPTIC CABLE**
- FT-IS-DV-x

**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>
</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>23</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>23</td>
</tr>
</tbody>
</table>

Product images provided by Aiphone®, All rights reserved.

Meridian Technologies Inc.
700 Elmont Road. Elmont, NY 11003 • 516. 285. 1000 • FAX 516. 285. 6300 • E-mail sales@meridian-tech.com
www.meridian-tech.com

ver. 02/2012 F