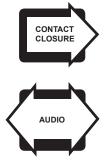


#### FEATURES:

- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Hot Swappable Cards
- Laser Based Back-Biased Photo Detection Circuitry for Stable Optical Output Over Full Temperature Range (Singlemode)
- ST<sup>™</sup>, FC Optical Connector
- 10 Hz to 15 KHz Audio Bandwidth
- Single Direction Contact Closure
- Digital Transmission technology
- SpectraSmart™ Compatible
- Meets NEMA TS1/TS2 and Caltrans Specifications
- Utilizes Switching, Internal Power Supplies
- LED Status Indicators Provide Rapid Indication of Critical Operating Parameters
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- Wide Optical Dynamic Range: Optical Attenuators are Never Required
- Three Pin Terminal Blocks for audio & contact signals

Aiphone/Dukane Intercom System



#### **DESCRIPTION:**

The ST/SR-1B1C/1B series products incorporates an alldigital transmission technology that transmits/receives intercom-compatible fiber optic audio transmission over one multimode or singlemode fiber. This product family supports intercom products from both Aiphone and Dukane. A push-to-talk contact is also included from the door panel to the entry control panel. The product's capabilities are further enhanced by it's compatibility with Meridian's optional PC based SpectraSmartTM Network Management and Diagnostic software system. SpectraSmartTM supervises the operating parameters of the transmission system such as status on the digital carrier signal, voltage, temperature, audio, optical levels, etc. See the SpectraSmartTM brochure for more details.

#### **Optional features include:**

- Video transmission
- Additional bi-directional audio channel
- Multi-protocol data transmission

#### **CONFIGURATIONS:**

The ST/SR-1B1C/1B product family is available as rack mount cards that can be installed in all of Meridian's card chassis, desk chassis and 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. This product requires no user adjustments & features superior quality and performance.

#### **MARKETS:**

- √ Security and Surveillance
- √ Intercom Systems
- √ Nurse Call Stations
- √ Residential Intercom

## **SPECIFICATIONS:**

### Audio

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

#### **Contact Closure**

Rate ..... 10 Hz.(Per Channel) 0.3A, 30V AC / DC Contact Rating ..... Contact Bounce Time ..... 5 ms

# **Optical**

Fiber Data Rate .....

### **Connectors**

	3 Pin Terminal Block
Audio	3 Pin Terminal Block
Contact	STTM . FC
Optical	2 Pin Terminal Block
Power	(SR-500 chassis)

### Power \*\*

Card
Module
Adapter for SR-1000/S

3.2 W 130 mA @ 24 VAC Model PS-100

250 Mb/s

\* Measured @ 1Km (multimode), @ 10Km (singlemode) \*\* Due to variations of drivers and diagnostic options power shown at maximum measurements

## **Indicators (LEDs)**

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
2 - Bi-Color	Audio Present / Overmodulation
2 - Green	Contact Closure Present

# **Physical**

Dimensions (Card) .....

Weight (Card) ..... No. of Slots ..... Module .....

160 mm (6.3") L, 127 mm (5") W 20mm (0.80") W 450 gms (16 Oz) 1 See SR-500 Brochure

## Enviromental

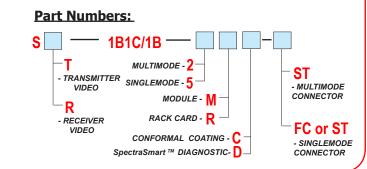
Operating Temperature ... Storage Temperature ...... Relative Humidity .....

-34°C to +74°C -55°C to +85°C 0 to 95% Non-condensing

## Quality

MTBF .....

>210,000 hours @ Ground Fix 35°C per MIL217F





# OPTICAL: -----

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-5	-26	21	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-5	-26	21	1310 / 1550	ST, FC	24

Meridian Technologies Inc.

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

