Aiphone IS Hardwire-Compatible Digitally Encoded Fiber Transmission System with Video and Bi-directional Audio

VIDEO **+** AUDIO

FEATURES:

- Aiphone IS system compatible for hardwire installation

- Single RJ45 connector interface

- Real Time Video, Audio & Data Transmission

- One-way Video channel

- Bi-Directional Audio and Data

- Embedded Data channel for signal flow control

- 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

DESCRIPTION:

The Meridian ST/SR-AiphoneIS product family provides a compact fiber optic transport system which seamlessly interfaces onsite Aiphone IS master stations with other remote Aiphone IS door stations in 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.

These products are available for operation over one multimode or singlemode fiber and have options for audio, video & data.

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

SPECIFICATIONS:

Interface and compatibility

Door station interface .... IS series Hardwired 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 .... 125 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 / Overload
1 - Bi-Color .... Sync. Present
1 - Green .... Tx Audio Present / Over-modulation
1 - Green .... Rx Audio Present / Over-modulation
1 - Green .... Tx Data Activity
1 - Green .... Rx Data Activity

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

Enviromental

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

Quality

MTBF .... >170,000 hours @ Ground Fix
35ºC per MIL217F

Part Numbers:

S ☐ — AiphoneIS — ☐☐-☐

T - TRANSMITTER VIDEO
R - RECEIVER VIDEO

MULTIMODE - 2
SINGLEMODE - 5

CONFORMAL COATING - C
SpectraSmart ™ DIAGNOSTIC - D

ST - MULTIMODE CONNECTOR
FC or ST - SINGLEMODE CONNECTOR

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

VIDEO ➡
⬅ AUDIO ➡

FIBER-OPTIC CABLE

SR-Aiphone IS

ST-Aiphone IS
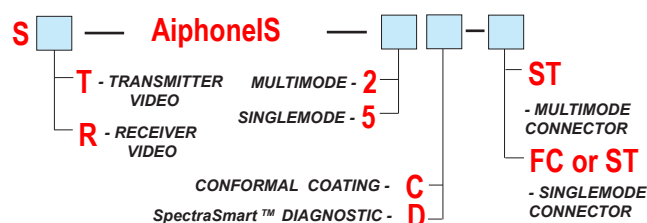
OPTICAL:

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

ver. 11/2011