MERIDIAN
TECHNOLOGIES

Aiphone IS Hardwire-Compatible Fiber Optic Connectivity between Aiphone IS CCU and RCU units

AUDIO

FEATURES:

- Compatible With Aiphone IS Series Exchange-Based Installations (IS-CCU)

- Rj45 Connector Interface To Aiphone IS Units

- Real Time Audio And Control Function Transmission

- Bi-Directional Audio and Control Data

- 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, SC Optical Connector Options

- Hot Swappable Cards

DESCRIPTION:

The Meridian FT/FR-IS-RCU-x product provides a simple, compact fiber optic transport system which seamlessly interfaces the Aiphone IS CCU with the RCU (Room Sub Control Unit).

This high-quality, cost-effective transport system provides a long distance solution for distributed monitoring and control 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.

Standard RJ45 connections are 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

SPECIFICATIONS:

Interface and compatibility

Control unit compatibility ...   IS-CCU & IS-RCU

Connectors

Input/output ....   RJ45 (shielded)
Optical ....   ST or SC (multimode),
                                          ST, FC or SC (singlemode)

Optical

Fiber Data Rate ....   350 Mb/s

Power **

Card ....   6 Watts

Indicators (LEDs)

1 - Green ....   Power On
1 - Bi-color ....   TX Carrier/ Laser Over Current
1 - Bi-color ....   RX Carrier - Present / Error
1 - Green ....   Tx Audio Input
1 - Green ....   Rx Audio Output
1 - Green ....   Tx Data Input
1 - Green ....   Rx Data Output

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:

F [ ] — IS — RCU — [ ][ ][ ]

T - TRANSMITTER
R - RECEIVER

MULTIMODE - 2
SINGLEMODE - 5

CONFORMAL COATING - C

ST, SC - MULTIMODE CONNECTOR
FC, ST, SC - SINGLEMODE CONNECTOR

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

IS-RCU

IS-CCU

FT-IS-RCU-x

AUDIO

FIBER-OPTIC CABLE

FR-IS-RCU-x
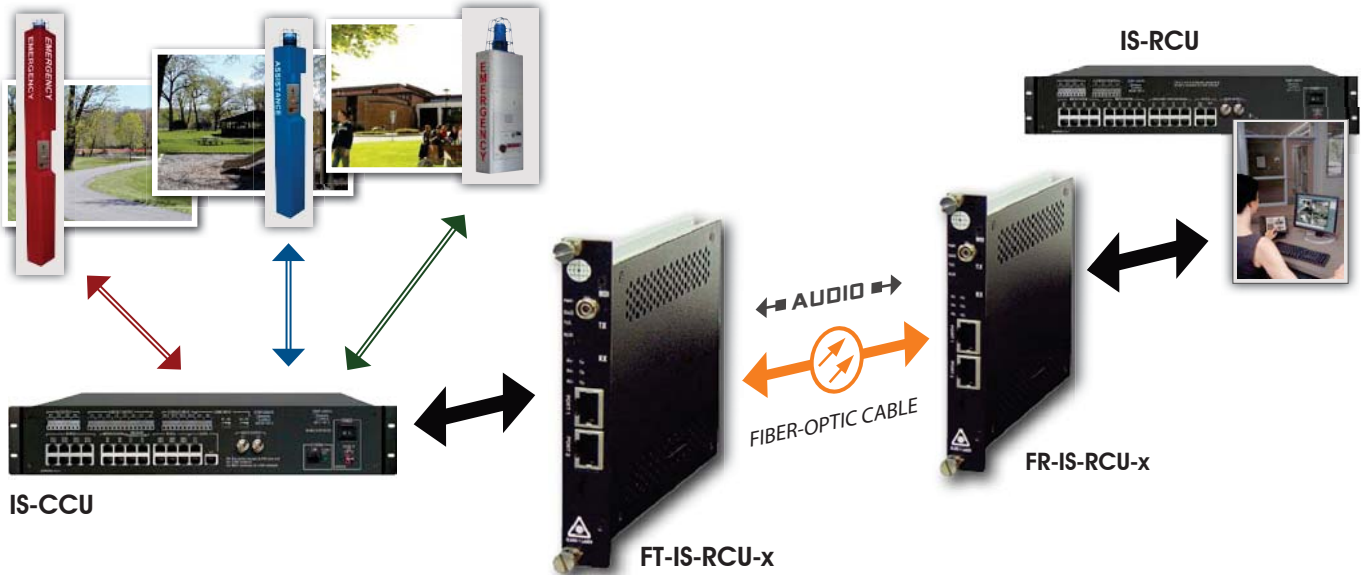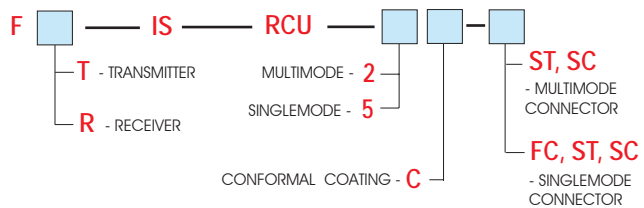
OPTICAL:

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