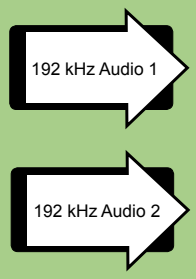
MERIDIAN TECHNOLOGIES

ST/SR-2AX-x DigiSlim™

Two Simplex Channels of 192 kHz Digital Audio over One Multimode or Single-mode Fiber



FEATURES

- Two Unidirectional Channels of 192 kHz Digitally Encoded Audio over one Fiber
- Transparent Digital Audio Transmission
- AES3 and S/PDIF support per IEC60958
- Dolby Digital / DTS support per IEC61937
- Low Power Consumption
- High Efficiency, Isolated Power Supply
- Laser Based Systems for Multimode and Single-mode Fiber
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- *SpectraSmart*™ Network Management Compatible
- Local LED Status Indicators to Monitor Critical
- System Diagnostics and Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Rack Cards
- Back - Biased Photo Detector Circuitry for Stable Optical Laser Output Over Full Temperature Range
- Meets NEMA TS1 / TS2 & CALTRANS Specifications
- Utilizes Internal Switching Power Supplies
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed
- BNC Connectors for Audio

DESCRIPTION

The ST/SR-2AX-x series fiber optic transmission system that takes advantage of Meridian's new digital encoding technology transmits following signals over one multimode or single-mode fiber:

1. Two Simplex 192 kHz digital audio

The functionality of ST/SR-2AX-x series is further enhanced by its compatibility with Meridian's PC based SpectraSmart™ Network Management and Remote Diagnostic Software System. SpectraSmart™ supervises the operating parameters of the transmission system such as status on video levels, sync, carrier detect, voltage, temperature, optical levels, data present etc. See the SpectraSmart brochure for more details.

Note: Digital Audio channels in conjunction with Video, Analog Audio and Data channels are available at customer request.

CONFIGURATIONS

The ST/SR-2AX-x products are available as rack mount cards that can be installed in 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. These systems can be made a standalone system by using the SR-500/s, 1 slot desk / wall mount chassis (87VAC-264VAC).

MARKETS

- √ Security and Surveillance
- √ Intelligent Transportation System (ITS)
- √ Access Control Systems
- √ Campus Lecture Networks

SPECIFICATIONS:

Audio Inputs (Tx) / Outputs (Rx)

Format Support	PCM, Dolby Digital, DTS
Sample Rate	32 kHz - 192 kHz
Input Impedance	75 Ohms (Unbalanced)
Minimum Input Signal	0.2 V p-p
Maximum Input Signal	1.2 V p-p
Jitter	<20ns
Return Loss	>15dB, 0.1 to 6.0MHz

Optical

Fiber Data Rate	1 Gb/s

Connectors

Audio	75 Ohm BNC (Gold Center Pin)
Optical	ST - MM(default), FC- SM(default)
Power (module)	See SR-500 Brochure for details

Power

Card	5 Watts

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 / Overload Tx/Rx

Physical

Dimensions (Card)	20 (W) x 127 (H) x 160 (D) mm (0.8 x 5.0 x 6.3 inch)
Weight (Card)	450 gms (16 Oz)
No. of Slots	1
Module	See SR-500 Brochure

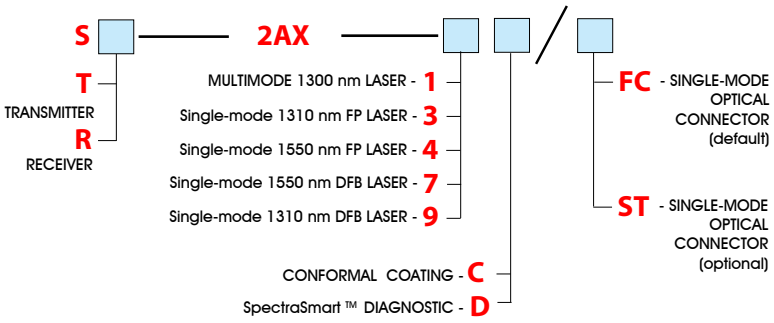
Environmental

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 MIL217F

Part Numbers:



OPTICAL:

* Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
1	Multimode (FP Laser) 62.5 / 125	-3	-22	19	1300	ST	22	2
3	Single-mode (FP Laser) 9 / 125	-3	-22	19	1310	ST, FC	22	50
4	Single-mode (FP Laser) 9 / 125	-3	-22	19	1550	ST, FC	22	65
7	Single-mode (DFB Laser) 9 / 125	+1	-22	23	1550	ST, FC	22	80
9	Single-mode (DFB Laser) 9 / 125	+1	-22	23	1310	ST, FC	22	65

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