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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

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so your equipment works exactly as you specify.

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- In stock / Ready-to-ship
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Expert team | Trust guarantee | 100% satisfaction

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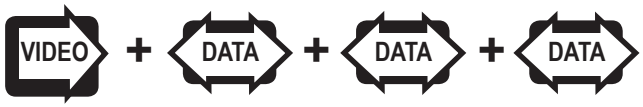
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MERIDIAN TECHNOLOGIES

SERIES 700i - V 4S / 4S

FM Video with Three Duplex Switch Select Data Channels





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™, FC Optical Connector
- 7 MHz Video Bandwidth
- 10 Hz to 20KHz Audio Bandwidth
- DC to 300 Kb/s Data Rate
- Meets EIA RS-170, RS-343A
- Frequency Modulated (FM) Transmission
- SpectraSmart™ Compatible
- Meets NEMA TS1/TS2 and Caltrans Specifications
- Utilizes Internal Switching Power Supplies
- Meets RS-250C Transmission Requirements
- Compatible with AII NTSC, PAL, or SECAM Systems
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- Wide Optical Dynamic Range: Optical Attenuators are Never Required
- BNC Video Connector
- DB Type Connector for Data

DESCRIPTION:

The Series 700i are Frequency Modulated (FM), fiber optic video systems that transmit one video signal and three Switch select duplex data signals for distances of 6Km on multimode fiber and 100Km over singlemode optical fiber. The Series 700i operates over one optical fiber. PAL, SECAM or NTSC formats, in B&W or color, are seamlessly transmitted. The Series capabilities are enhanced by it's compatibility with Meridian's PC based SpectraSmart™ Network Management and Diagnostic software system. SpectraSmart™ supervises the operating parameters of the transmission system such as status on video levels, sync, FM carrier detect, voltage, temperature, optical levels, etc., and external equipment which are attached to the Meridian equipment. See the SpectraSmart™ brochure for more details.

CONFIGURATIONS:

The 700i product family is available in 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
Intelligent Transportation System (ITS)
Vessel Tracking System (VTS)
Access Control

SPECIFICATIONS:

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max.
Bandwidth	5 Hz to 7 MHz @ -3 dB
Differential Gain	<2% typical
Differential Phase	<1.5° typical
SNR	64 dB weighted*
Return Loss	>30 dB
Field Tilt	<0.5% max.
Carrier Frequency	70 MHz

Data

Formats	RS-232D & RS-422A,
Rate	DC to 300 Kb/s
Bit Error Rate	10^{-9} *

Connectors

Video	75ohm BNC (Gold Center Pin)
Audio	DE-15 Female
Data	DE-15 Female
Optical	ST™, FC
Power	5 pin Male DIN

Quality

MTBF	>145,000 hours @ Ground Fix 35°C per MIL217F

Power **

Card	6.7 W
Module	280 mA @ 24 VAC
Adapter for SR-1000/S	Model PS-100

Indicators (LEDs)

Red	Power On
Green (7)	Video, Audio, Data
	Activity LED's

Physical

Dimensions:	
Module (w/SR-1000)	182 mm (7.16") L, 165 mm (6.5") W
	44 mm (1.75") H
Card	160 mm (6.3") L, 40 mm (1.7") W
	100 mm (4") H
Weight:	
Module (w/SR-1000)	1350 g (48 oz.)
Card	675 g (24 oz.)
Number of Rack Slots	Two

Enviromental

Operating Temperature	-40°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

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

Model Numbers:

PT-700iR-V4S/4S-0 . . .Transmitter, 1300/850nm, MM, 1 Fiber, ST
PT-700iR-V4S/4S-1. . .Transmitter, 1550/1310nm, SM, 1 Fiber, FC
PT-700iR-V4S/4S-3. . .Transmitter, 1550/1310nm, SM, 1 Fiber, FC, DFB Laser

PR-700iR-V4S/4S-0 . . . . Receiver, 850/1300nm, MM, 1 Fiber, ST
PR-700iR-V4S/4S-1 . . . . Receiver, 1310/1550nm, SM, 1 Fiber, FC
PR-700iR-V4S/4S-3 . . . . Receiver, 1310/1550nm, SM, 1 Fiber, FC



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Reciever Sensitivity(dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode* (SLED) 62.5/125	-15 / -18	-33 / -33	15**	850/1300	ST	39
Singlemode (Laser) 9/125	-7 / -7	-36 / -36	29	1310/1550	ST, FC	41
Singlemode (DFB) 9/125	+2 / +2	-36 / -36	38	1310 / 1550	ST, FC	41

* *Distance is limited to fiber loss, splices and fiber bandwidth*
** *For 50/125μm fiber, subtract 3dB*

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Visit our web side: www.meridian-tech.com

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