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TECHNOLOGY GROUP

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Custom engineering
so your equipment works exactly as you specify.

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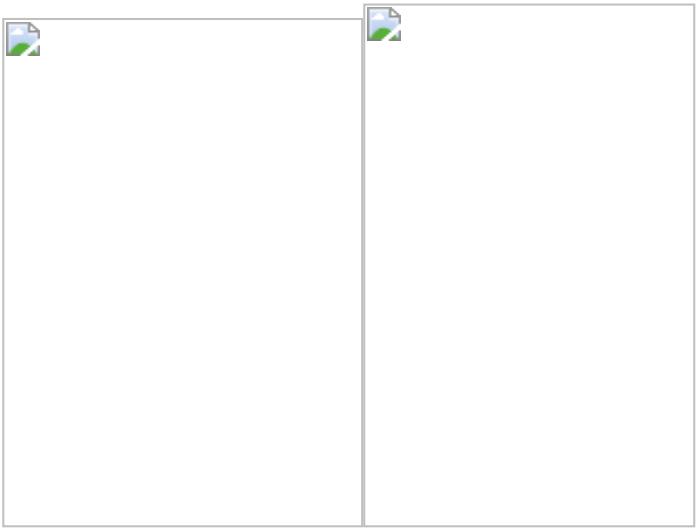
Expert team | Trust guarantee | 100% satisfaction

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Find the *Meridian Technologies PT-4000iR-3* at our website: *Click HERE*

SERIES 4000i

Fiber Optic 4 Channel Video Mux on One Fiber
4 Video w/4 Audio and/or Data on One Fiber
4 Video w/Data Return PTZ on One Fiber



DESCRIPTION

Series 4000i is an FM based, PAL, SECAM, NTSC compatible fiber optic video, audio and data system that operates on one multimode or singlemode fiber. Models for 4 video; 4 video and 4 channels of audio or data; 4 video and data return for PTZ are available. Multichannel transmission is derived from Square Wave Frequency Modulation and Frequency Division Multiplexing (SWTM/FDM) techniques. Optional is SpectraSmart™, a microprocessor Ethernet based remote diagnostic and Network Management feature -- see details in SR-2000 subrack brochure. Stati on video, sync, FM carrier detect, voltage, temperature and optical levels are monitored. Series 4000i is a reliable cost effective, state of the art one fiber video, audio, data system.

FEATURES

* Compact Card Units
* Cards are "Hot" Swapable
* No EMI, RFI, Ground Loops
* Surface Mount Technology
* No Attraction to Lightning
* BNC l/O Video Connector
* RCA Mini Stereo Audio Connector
* Terminal Block Data Connector
* ST™, FC Optical Connector
* 10 MHz Video Bandwidth/channel
* Meets EIA R-170, RS-343A
* 4 Video with up to 4 Audio/Data
* 4 Video with One Data PTZ Return
* 11 dB Budget w/50 micron Fiber
* 22 dB Budget w/Singlemode Fiber
* Requires no user adjustment
* 200W Switcher, 110/220V (subrack)
* 18 Cards/EIA Subrack w/1 Supply and
  14 or 36 Cards w/Redundant Supplies
* Desk Chassis for 2, 4 and 7 Slots
* SpectraSmart™ Network Management

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CONFIGURATIONS

Series 4000i are available as cards for wall or rackmount installation. (see subrack and desk chassis brochures). FM systems require no user adjustments. Supports multimode and singlemode fibers with superior dynamic range circuit design.

APPLICATIONS

Designed to transmit multichannel Video, Audio and Data on a single fiber. Ideal for:

* Security and Surveillance
* Campus Lecure Networks
* Intelligent Transportation System (ITS)

SYSTEM SPECIFICATIONS

Video Performance

Video In/Output Impedance.....	75 Ohm (unbalanced)
Video In/Output Voltage.....	1.0V p-p typ, 1.5 V max
Frequency Response - 4000i/4100i.....	5 Hz to 10 MHz 5 Hz to 7 MHz
Frequency Response - 4400i	<±1% typ <±1° typ
Differential Gain (10% to 90% APL).....	<0.5% max
Differential Phase (10% to 90% APL).....	>58 dB (weighted)*
Field Tilt.....	150 MHz
Signal to Noise Ratio.....	*as per RS-250C, measured @ 1000 meters (multimode); @ 10 Km (1310 nm singlemode)
FM Carrier Frequency.....	

Audio Performance

Audio Input/Output Impedance.....	600 Ohm, 10 kOhm or 47 kOhm bal/unbalanced
Audio Input/Output Level.....	-6 to +6 dBm
Frequency Response.....	10 Hz to 20 KHz
THD.....	<1%, 1 KHz @ max modulation
Signal to Noise Ratio.....	>60 dB (weighted)*

Data Performance

Data Rate.....	DC to 19.2 kbs
Bit Error Rate.....	10^{-9}

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Optical Performance (4000i/4400i)

Wavelength	LED 1300 1310 or 1550nm Laser
Fiber Type.....	50/125µ 62.5/125µ Singlemode
Output Power w/ST.....	-14 dBm -11 dBm N/A
Output Power w/FC.....	N/A N/A -8 dBm**
Receiver Sensitivity.....	-25 dBm -25 dBm -25 dBm
Optical Loss Budget.....	-11 dBm -14 dBm -17 dBm
Optical Dynamic Range.....	20 dB 20 dB 20 dB**
	**available w/higher output lasers

Optical Performance (4100i)

Wavelength	850/1300 1310/1550
Fiber Type.....	50µ 62.5µ Singlemode
Output Power w/ST.....	16dBm -13 dBm N/A
Output Power w/FC.....	N/A N/A -8 dBm**
Receiver Sensitivity.....	-25 dBm -25 dBm -25 dBm
Optical Loss Budget.....	9 dBm 12dBm -17 dBm
Optical Dynamic Range.....	20 dB 20 dB 20 dB**
	**available w/higher output lasers

General Parameters

Operating Temperature.....	-20°C +65°C
Operating Humidity.....	0 to 95% non condensing
Weight (card).....	450g (16 oz)
Weight (2 slot card).....	650g (23 oz)
Dimensions (card).....	160mm(6.3")L, 20mm(0.8")W, 100mm (4")H
Dimensions (2 slot card).....	160mm(6.3")L, 40 mm (1.7")W, 100mm(4")H

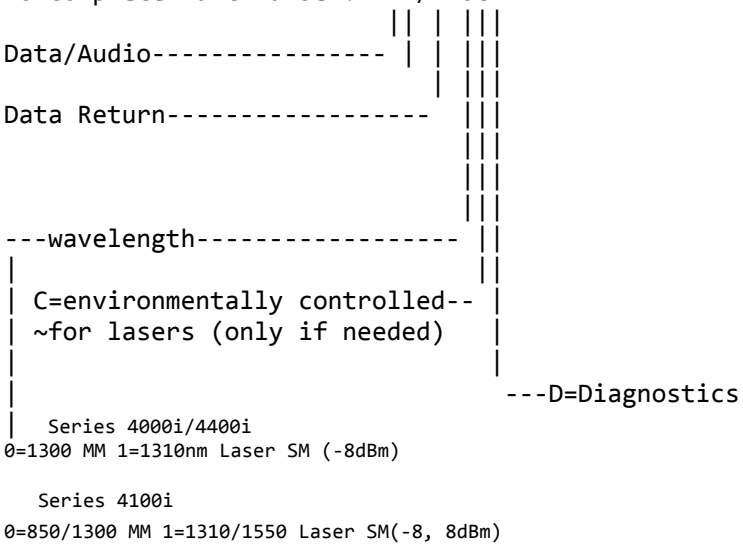
ORDER INFORMATION

PT-2000iR-0CD	2 Video mux Transmitter Card
PR-2000iR-OD	2 Video mux Receiver Card

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PT-4000iR-0CD 4 Video mux Transmitter Card
PR-4000iR-0D 4 Video mux Receiver Card
PT-4100iR-Y-OCD 4 Video,1 Data Return mux Transceiver Card (2 slot)
PR-4100iR-Y-0D 4 Video,1 Data Return mux Transceiver Card (2 slot)
PT-4400iR-XX-OCD 4 Video,4 Audio &/or Data Mux Trans. Card (2 slot)
PR-4400iR-XX-OD 4 Video,4 Audio &/or Data Mux Recv. Card (2 slot)

To Complete Part Number: XX/Y-OCD



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Gold-standard solutions

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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