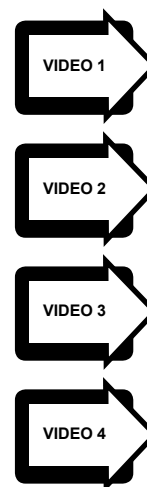


Four-Channel, Video Transmitter with CWDM Laser



FEATURES:

- One Slot Digital Module Design
- 8 Bit Video Digital Encoding
- Real Time Video Transmission
- 7 MHz Video Bandwidth
- Meets RS-250C Short Haul (10 Bit) and Medium Haul (8 Bit) Transmission Spec.
- NTSC, PAL, SECAM Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Cards
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats

DESCRIPTION:

This module in the **ST-4V-CWDM product family** incorporates an all-digital encoding technology that transmits four real-time, simplex 10 bit video channels in one direction over one single-mode optical fiber in the CWDM wavelength space. NTSC, PAL and SECAM video formats are supported. This transmitter card is available for transmitted any one of the industry standard CWDM wavelengths from 1270nm through 1610nm over one, singlemode fiber with either an ST or FC optical connector. The transmitter will interface with any standard CWDM multiplexer to efficiently add it to the overall wavelength plan of the fiber system. It is ideally suited to Meridian's 4 & 8 channel CWDM multiplexer (CWDM-4 & CWDM-8). See the appropriate data sheets for detailed information about these wavelength multiplexer products.

CONFIGURATIONS:

The **ST-4V-CWDM product family** is available as a card that can be installed in any of Meridian's desk chassis or in 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be transformed in to a standalone module by utilizing an SR-500/S (standard configuration) or an SR-1000/S.

MARKETS:

- ✓ Intelligent transportation systems (ITS)
- ✓ Security and surveillance
- ✓ Access Control

SPECIFICATIONS:

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max.
Bandwidth	5 Hz to 6.8 MHz @ -3 dB
Differential Gain	<0.6%
Differential Phase	<0.3°
SNR (8 Bit)	>60 dB (weighted)*
Return Loss	>30 dB
Field Tilt	< 0.5%

Optical

Fiber Data Rate	500 Mb/s
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Connectors

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

Power **

Card	4 Watts
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Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
4 - Bi-color	Video Present / Overload
4 - Green	Video Sync. Present

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

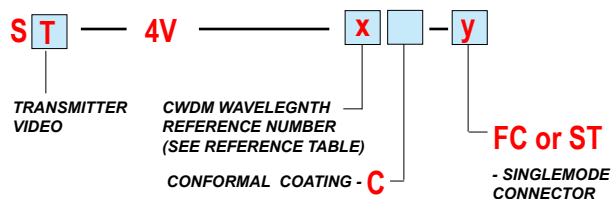
Operating Temperature ...	-10° C to +70° C
Storage Temperature	-55° C to +85° C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>200,000 hours @ Ground Fix 35°C per MIL217F
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REFERENCE NUMBER	WAVELEGNTH
27	CWDM, 1270 nm DFB Laser
29	CWDM, 1290 nm DFB Laser
31	CWDM, 1310 nm DFB Laser
33	CWDM, 1330 nm DFB Laser
35	CWDM, 1350 nm DFB Laser
37	CWDM, 1370 nm DFB Laser
39	CWDM, 1390 nm DFB Laser
41	CWDM, 1410 nm DFB Laser
47	CWDM, 1470 nm DFB Laser
49	CWDM, 1490 nm DFB Laser
51	CWDM, 1510 nm DFB Laser
53	CWDM, 1530 nm DFB Laser
55	CWDM, 1550 nm DFB Laser
57	CWDM, 1570 nm DFB Laser
59	CWDM, 1590 nm DFB Laser
61	CWDM, 1610 nm DFB Laser

Part Numbers:

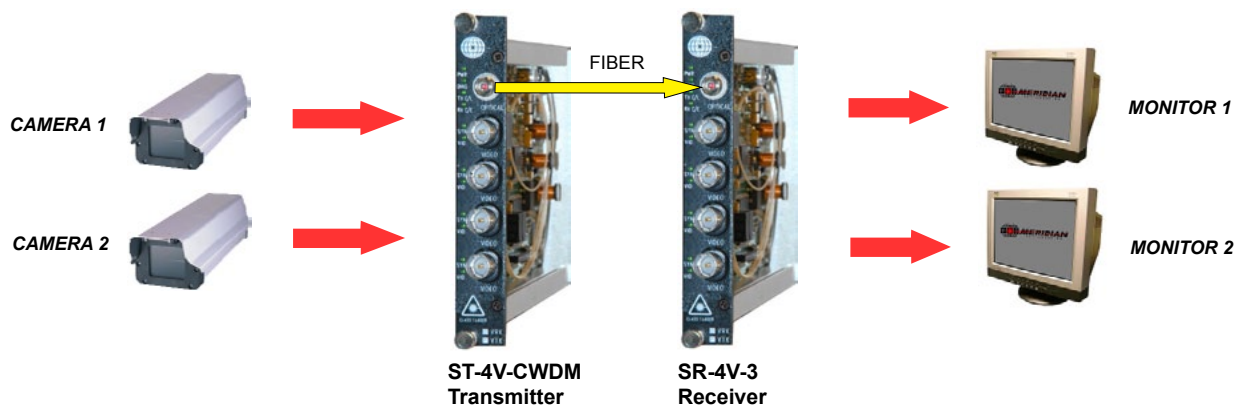


Note:

Compatible receiver is the **SR-4V-3**
(with options for ST or FC connector, conformal coating and diagnostics)

* measured @ max. optical budget

** Due to variations of drivers and diagnostic options, power shown @ max value



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Singlemode (CWDM laser) 9 / 125	+3	-26	29	1270 - 1610	ST, FC	24

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