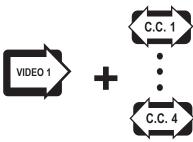


Digitally-Encoded One Channel Video







FEATURES:

- 8-Bit Video Digital Encoding
- Transmits 1 Real-Time Video channel with 4 Bi-directional Contact Closures
- 7 MHz Video Bandwidth
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Singlemode
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart[™] Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Cards
- Laser Back Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range.
- Meets NEMA TS1 / TS2 & CALTRANS Specs.
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats
- High Density DB9 (15 Pin) for Contact Closure

DESCRIPTION:

The DV-1V4C/4C series products incorporate digital encoding technology. This fiber optic module transmits one real-time, high performance 8-bit digitally-encoded video signal with Four Bi-directional Contact Closure Channels over one fiber. These Contact Closure channels can be individually configured as either Normally Open (N.O.) or Normally closed (N.C.). These contacts reverts to N.O. state in case of a Fiber break, but can be configured individually as per clients needs. Both Multimode and Singlemode fiber versions are available. Meridian's digital product line incorporates plug-in personality signal cards to easily configure a wide variety of module types. The functionality of the DV-1V4C/4C series products are enhanced by their compatibility with Meridian's PC based SpectraSmart Network Management & Diagnostic Software system. SpectraSmart supervises the operating parameters of the transmission system such as the status on video levels, sync, digital carrier detect, voltages, temperatures, optical levels etc. See SpectraSmart brochure for further details.

Note: System Shipped from the factory is configured as Normally Open.

CONFIGURATIONS:

The DV-1V4C/4C product family is available as rack mount cards and modules that can be installed in Meridian's card chassis, desk chaises 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-1000/s, 2 slot desk / wall mount chassis (87VAC-264VAC)

MARKETS:

Intelligent transportation systems (ITS) Security and surveillance Access Control

SPECIFICATIONS:

Video

Bandwidth 5 Hz to 6.8 MHz

Differential Gain <0.6%
Differential Phase <0.3°

SNR>60 dB (weighted)*

Return Loss >30 dB Field Tilt <0.5%

Data

Optical

Fiber Data Rate 500 Mb/s

Connectors

Optical ST, FC

Power **

Part Numbers:

Indicators (LEDs)

1 - Green Power On

 1 - Bi-color
 TX Carrier/Laser Over Current

 1 - Bi-color
 RX Carrier - Present / Error

 1 - Bi-color
 RX optical signal - Present / Absent

1- Green. Sync. Present

1 - Bi-color Video Present / Overload

5 - Green. Data Present

Physical

Dimensions:

44 mm (1.7") H

Weight:

Card 450 gms (16 oz)

No. of Slots. 2

Enviromental

Operating Temperature. . . . -40° C to $+74^{\circ}$ C Storage Temperature. -55° C to $+85^{\circ}$ C

Relative Humidity. 0 to 95% Non-condensing

Quality

MTBF...... >200,000 hours @ Ground Fix

35°C per MIL217F

* measured @ max. optical budget

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

DR-1V4C/4C-2. . . . Rx, 850nm/ 1300nm, MM, Laser DR-1V4C/4C-5. . . . Rx, 1310nm/1550nm,SM, Laser DR-2W4C/4C-8. Rx, 1130nm/1550nm,SM, DFB Laser



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-3	-24	21	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-3	-24	21	1310 / 1550	ST, FC	24
Singlemode (DFB Laser) 9 / 125	+3	-24	27	1310 / 1550	ST,FC	24