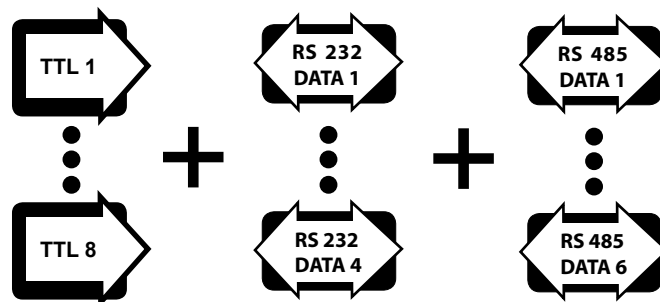




### FEATURES:

- Real Time Data Transmission
- 4 Bi-Directional RS-232 Data channels
- 6 Bi-Directional RS-485 (2-wire) Data channels
- 8 Eight Simplex TTL Data Channels
- Multimode, Singlemode and CWDM, over one or two fibers via SFP modules
- 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
- LC, SC Optical Connector (SFP dependent)
- 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
- DB 9 Type Connectors for RS-232 and RS-485 Data
- DB 15HD Type Connectors for TTL Data

Digital Four Bi-directional RS 232 Data channels,  
 Six Bi-directional RS 485 (2-wire) Data channels  
 and Eight Simplex TTL Data using Standard  
 Small Form Pluggable (SFP) Optical Device



### DESCRIPTION:

The DT/DR-4D6J8L/4D6J-SFP series are Meridian's newest products incorporating industry standard SFP optical modules for exceptional product versatility and performance. This fiber optic module transmits Four Bi-directional RS 232 Data channels, Six Bi-directional RS 485 (2-wire) Data channels and Eight Simplex TTL Data using the industry standard Small Form Pluggable (SFP) optical device. This SFP gives you the option for either singlemode, multimode or CWDM wavelength selections by simply plugging in the appropriate SFP module. Meridian's digital product line incorporates plug-in personality signal cards to easily configure a wide variety of module types. The functionality of the DT/DR-4D6J8L/4D6J-SFP product is 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.

### CONFIGURATIONS:

The DT/DR-4D6J8L/4D6J-SFP product is available as rack mount cards and modules that can be installed in either 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. This product requires two standard single slots and can be made into a stand-alone system with the addition of the SR-1000/s, 2 slot desk/wall mount chassis (87 VAC- 264VAC).

### MARKETS:

- ✓ Intelligent Transportation Systems (ITS)
- ✓ Security and Surveillance
- ✓ Access Control

## SPECIFICATIONS:

### Data

Formats	RS-232, RS-485, TTL
Data Rate RS-232	DC to 125 Kb/s
Data Rate RS-485	DC to 250 Kb/s
Data Rate TTL	DC to 250 Kb/s
Bit Error Rate	10 <sup>-9</sup> *

### Connectors

Optical	LC, SC
Power (module)	See SR-1000 Brochure for details
Data RS-232, RS-485	DB9 Female
Data TTL	DB15HD Female

### Optical

Fiber Data Rate	250 Mb/s
Fiber Type and Wavelength	SFP dependent

### Power \*\*

Card	5 Watts
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### Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Green	RX Optical Signal - Present/Absent
28 - Green	Data Present

### Physical

Dimensions (Card)	44 (W) x 127 (D) x 160 (H) mm (1.7 x 5.0 x 6.3 inch)
Weight (Card)	450 gms (16 Oz)
No. of Slots	2

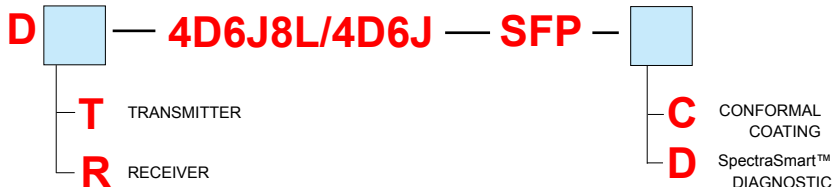
### Environmental

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

### Quality

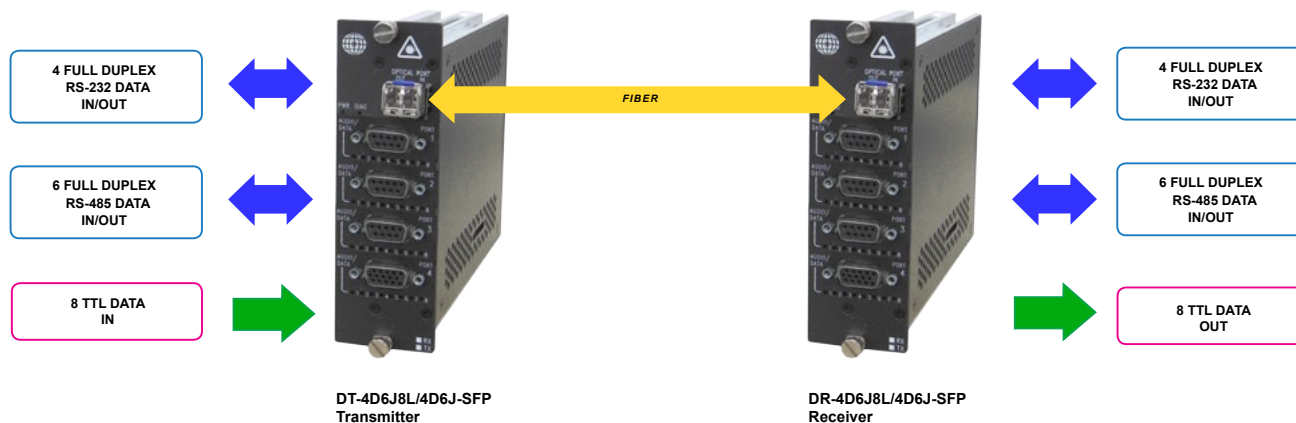
MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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### Part Number:



\* measured @ max. optical budget

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



### SFP OPTIONS:

The SFP series products are available for both single-mode and multimode fiber applications and either one or two fiber versions. Recommended optical speed for this product is 155 Mb/s.

For more specifications on a SFP optical devices go to [SFP data sheet](#) or visit:

[WWW.MERIDIAN-TECH.COM](http://WWW.MERIDIAN-TECH.COM) -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES

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