

Duplex RS-232 Data Transmission

The FMV-574D2 is a robust duplex data transmission system that supports one RS-232 duplex channel over one multimode or singlemode fiber. Carrier detect, voltage, temperature, and optical levels are monitored via LEDs.

System Design

All units come in an Insert Card version. The cards can be inserted into our 18-slot, 19" rack mountable card cage (CC-18-80W), or one of our smaller Desktop Card Racks (DTCR series).

The Desktop Card Racks can handle one, two, four, or seven cards, allowing for greater flexibility and future expansion. They can sit on a flat surface as a larger stand-alone unit, or can be surface mounted with the flanges provided. Each one of our card housings operates with an appropriate power supply. The regulated switching power supply has short circuit protection and an input operating voltage of 85-265 V_{AC}.



Features

- Multimode or singlemode operation over one fiber
- Wide temperature range
- High Mean Time Between Failure (MTBF)
- Flat frequency response
- No EMI or RFI and no ground loops
- Standalone or Rack Mount
- Ideal for traffic monitoring, surveillance and control



865	1310	1550	1270-1610 (CWDM)	Type	Mode	Wavelength Suffix	Fiber Type	Output Power	Receiver Sensitivity	Optical Loss Budget	Range*	Conn Type
•	•			LED	MM	L0/L1	50/125μ 62.5/125μ	-16 dBm	-34 dBm	18 dB	3 km	ST
•	•	•		Laser	SM	L2/L3	09/125μ	-10 dBm	-34 dBm	24 dB	25 km	FC
			•	Laser	SM	L4	09/125μ	-3 dBm	-36 dBm	33 dB	25-90 km	FC

* Chromatic dispersion and additional losses should be taken into account.

Composite Video, Audio & Data

Specifications

Data

Data rate	DC to 300 Kbps
Bit error rate	10 ⁻⁹
Data formats available	Async RS-232
Connector type	Hi-density 15 pin DB9 (DE15)

General

Dimensions & Weight	Standalone (SA): 7.16" L x 5.21" W x .94" H	39 oz
	Insert Card (IC): 6.3" L x 0.8" W x 4.0" H	16 oz
Operating temperature	-20° C to +70° C	
Storage temperature	-30° C to +85° C	
Humidity	0 to 95% non-condensing	
Operating voltage	12 V _{DC} (200 mA) or 9-24 V _{AC} (6W) or 110/220 V _{AC}	
Shock & Vibration	Sinusoidal, 5 to 200Hz at 1.5g peak	
MTBF	>200,000 Hours @ 30°C, Ground Benign, per MIL-HDBK-217F	

Diagnostics

Status monitoring	LED indication
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10 **ISO**
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FCC PART 15
COMPLIANT

Emissions: FCC Part 15, ICES-003,
AS/NZS, 3548, EN55022
Immunity: ENVS0204,
EN61000-4-2,3,4,5,6,11
Safety: UL1950, CAN/CSA 22.2,
NO.950-95

MADE IN THE USA

Sample Configuration

