

# DFO3101T/R-DFO4101T/R

## Digital Fiber Optic

### 1 Video



#### DESCRIPTION

The DFO3101iT/R and DFO4101iT/R Series are NTSC and PAL uncompressed, 8 bit, Digitally encoded fiber optic transmission of one video on multimode or singlemode fiber. Available as standalone and card versions with the highest density, 18 slots per 19" x 3U Subrack. Units are designed with rugged Aluminum case for outdoor environment and meet the stringent equipment specifications, including temperature, shock, vibration, humidity, voltage and transient protection. Input voltage for standalone are 5VDC and 19" Chassis are 100-240VAC.



#### FEATURES

- \* Uncompressed 1 Video, 8 Bit Encoding
- \* 8 MHz video bandwidth, NTSC, PAL
- \* Immune to EMI and RFI
- \* LED status indicators for power, optic link and video signals
- \* Highest optical dynamic range
- \* Hot-Swappable Rack Cards
- \* Automatic Re-settable Fuses
- \* No optical user adjustments
- \* Highest Racking Density - 18 Slots, 2 PSU
- \* 5VDC for standalone; 100-240VAC for 19"3U
- \* Compliance with CE, FCC and ROHS

#### APPLICATIONS

- \* Homeland Security
- \* Correctional Centers
- \* Petrochemical Industry
- \* Corporate and Banking
- \* Casinos and Hospitality
- \* Health Care Centers
- \* Schools and Universities
- \* Government and Military
- \* Power Generating Plants
- \* Traffic Surveillance (ITS)

#### ORDERING INFORMATION

##### Standalone

DFO3101TAZM0S Digital 1 Video Transmitter fiber MM, 5VDC ST  
DFO4101TEZM0F Digital 1 Video Transmitter fiber SM, 5VDC FC

DFO3101RAZM0S Digital 1 Video Receiver fiber MM, 5VDC ST  
DFO4101REZM0F Digital 1 Video Receiver fiber SM, 5VDC FC

##### Rackmount

DFO3101RAZRS Digital 1 Video Receiver fiber MM Card ST  
DFO4101REZRF Digital 1 Video Receiver fiber SM Card FC



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#### Specifications

##### Video performance

Video connector: BNC  
 Video Bandwidth: 5 Hz~8MHz  
 Video input/output Impedance: 75 Ω (unbalanced)  
 Video input/output voltage: 1.0V p-p  
 Differential gain 10%-90%APL: <1% (typical)  
 Differential phase 10%-90%APL: <1° (typical)  
 SNR (Weighted): ≥ 60dB  
 Encoding: 8 Bit Uncompressed

##### Environmental Parameters

Environmental temperature: -34°C~+74°C  
 Storage temperature: -40°C~+85°C  
 Relative Humidity: 0~95% (Non-condensing)

##### Power Parameters

Rated voltage: 5VDC (standalone)  
 Power Supply: 1A (included)

##### Mechanical Parameters

Dimensions:  
 Standalone L x D x H: 4.7"(120mm), 4.1"(105mm), 1.1"(28mm)  
 Rackmount Card L x D x H: 6.2"(156mm), 5.1"(130mm), 0.8"(20mm)  
 DFO9300 Subrack 3U: 19"(485mm), 11.8"(300mm), 5.25"(135mm)  
 L x W x H

**Regulatory Compliance:** CE, FCC, ROHS

**Manufactured to:** ISO9001:2000 Standards

#### Optical performance

	Singlemode	Multimode
Fiber type	Singlemode	Multimode
Wavelength	Laser 1310/1550nm	Laser 1310nm/1550nm
Output Power	-8 dB	-18dB
Receiver Sensitivity	-30 dB	-23dB
Optical Loss Budget	22 dB	15dB

Note: 2Km on MM 62.5/125u; 5Km on MM 50/125u; 20Km on SM 9/125u. Available with up to 60Km

