

# DFO3301T/R-DFO4301T/R

## Digital Fiber Optic

### 1 Video/duplex Data



#### DESCRIPTION

The DFO3301iT/R and DFO4301iT/R Series are NTSC, and PAL uncompressed, 8 bit, Digitally encoded fiber optic transmission of one video and bidirectional RS-422/RS-485 Data on 1 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
- \* Bidirectional RS-422/RS-485 PTZ Data
- \* Available Manchester and Biphase Data
- \* Immune to EMI and RFI
- \* LED status indicators for power, optic link and video signals
- \* Highest optical dynamic range
- \* Hot-Swappable Rack Cards
- \* 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

DFO3301TAZM0S Digital 1 Video Transmitter, Bidirectional Data, 1 fiber MM, 5VDC ST  
DFO4301TEZM0F Digital 1 Video Transmitter, Bidirectional Data, 1 fiber SM, 5VDC FC

DFO3301RAZM0S Digital 1 Video Receiver, Bidirectional Data, 1 fiber MM, 5VDC ST  
DFO4301REZM0F Digital 1 Video Receiver, Bidirectional Data, 1 fiber SM, 5VDC FC

##### Rackmount

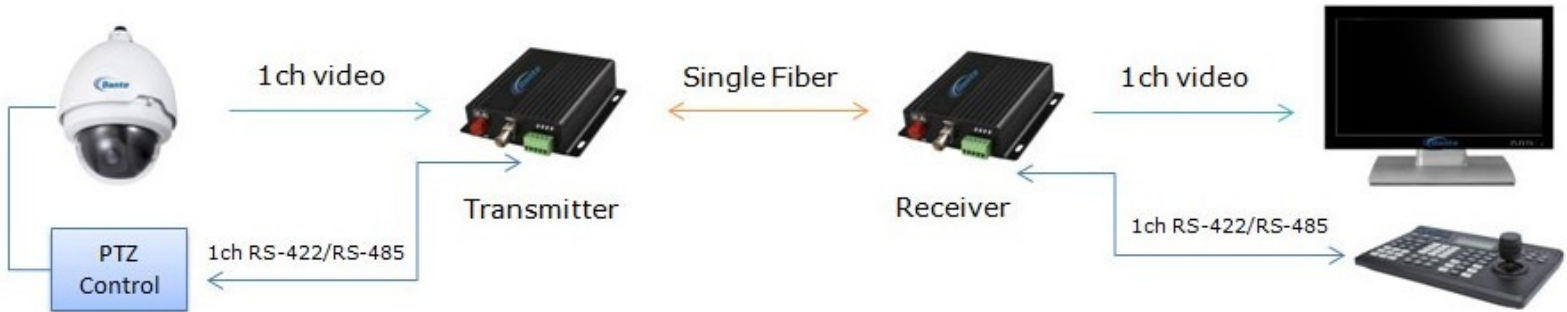
DFO3301RAZRS Digital 1 Video Receiver, Bidirectional Data, 1 fiber MM Card ST  
DFO4301REZRF Digital 1 Video Receiver, Bidirectional Data, 1 fiber SM Card FC



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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 @ highest optical budget loss  
 Encoding: 8 Bit Uncompressed

#### Data performance

Data interface: RS-422, RS-485  
 Optional Data: Manchester, Biphasic  
 Bit Rate: 0-300Kbps (RS-422/485)  
 Data connector: Terminal Block - 5 Pins  
 Data error rate : ≤ 10<sup>-9</sup>

#### 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)

#### Regulatory Compliance:

CE, FCC, ROHS  
**Manufactured to:** ISO9001:2000 Standards

### Optical performance

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

