

DFO38012X-DFO48012X/iX Fiber Optic Ethernet 10/100Mbps Series



DESCRIPTION

The DFO38012X and DFO48012X Series Ethernet TRX are designed to transmit/receive 10 or 100 Mbps data over two (2) multimode or two (2) or one (1) singlemode fibers. Status indicating LED's are available for power, optical link and data traffic status. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. Units are available in either 5VDC standalone, interchangeable with rack mount into a 19" x 2U Subrack with 16 slots and built-in, dual power supplies with input voltage 100-240VAC.



FEATURES

- * Provides up to 100Mbps full duplex or half duplex transmission on 1 or 2 fibers
- * Auto-negotiation and auto-sensing MDI-MDIX, no crossover cables required
- * Ethernet 802.3 10Base T, 802.3u; 100Base-TX/FX Fast Ethernet, 802.3X Flow control
- * 802.1q VLAN, 802.1p QoS, 802.1d spanning Tree
- * Temperature rating of -10°~+55C°
- * Power-on, Status and Data Traffic LEDs
- * RJ-45 Ethernet Connector
- * ST or SC Optical Connectors
- * 2Km MM Fiber; 25Km, 60KM SM Fiber
- * 5VDC standalone; 100-240VAC 19" 2U Chassis
- * Compliance with CE, FCC, 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

DFO38012XAYM0S/C	10/100Mbps, Fiber Optic 2 fiber TRX (1310nm) MM, 5VDC ST/SC
DFO48012XEYM0C	10/100Mbps, Fiber Optic 2 fiber TRX (1310nm) SM, 5VDC SC
DFO48012XFYM0C	10/100Mbps, Fiber Optic 2 fiber TRX H/O (60Km) SM, 5VDC SC
DFO48012iXDYM0C	10/100Mbps, Fiber Optic 1 fiber TRX (1310/1550nm) SM, 5VDC SC
DFO48012iXEYM0C	10/100Mbps, Fiber Optic 1 fiber TRX (1550/1310nm) SM, 5VDC SC

Rackmount

DFO38012XAYRS/C	10/100Mbps, Fiber Optic 2 fiber TRX (1310nm) MM, ST/SC
DFO48012XEYRC	10/100Mbps, Fiber Optic 2 fiber TRX (1310nm) SM, SC
DFO48012XFYRC	10/100Mbps, Fiber Optic 2 fiber TRX H/O (60Km) SM, SC
DFO48012iXDYRC	10/100Mbps, Fiber Optic 1 fiber TRX (1310/1550nm) SM, SC
DFO48012iXEYRC	10/100Mbps, Fiber Optic 1 fiber TRX (1550nm/1310) SM, SC



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Data Performance

Fiber ports: ST/SC for MM & SC for SM fiber
 Electrical Port: RJ-45 w/auto-cross, 100BASE-TX and 10BASE-T
 RJ-45 Ports Data Rate: 10/100 Mbps, FDX and HDX modes
 Auto-negotiation and auto-sensing
 MDI-MDIX - no crossover cables required; non-blocking switching
 Bit Error Rate: $<10^9$
 Network Standards: Ethernet IEEE 802.3, IEEE 802.3u; IEEE 802.1p, 100BASE-TX, 10BASE-T, 100BASE-FX
 VLANs Support: IEEE 802.1q received and transmitted unchanged

LED Indicators

#1: Power on
 #2, # 3: RJ-45 TX/RX Status
 #4, #5: Optical Link Status
 #6: Data traffic, blinking for activity

Environmental Parameters

Operating Temperature: -10 °C~55°C
 Storage Temperature: -40 °C~70°C
 Operating Humidity: 5% - 95% (non-condensing)

Mechanical Parameters

Enclosure: Robust Steel sheet metal
 Dimensions Standalone: 5.3"(135mm), 3.54"(90mm)
 L x W x H 1.2"(30mm)
 Dimensions Card: 5.3"(135mm), 3.4"(87mm)
 L X W x H 1" (25mm)
 DFO9200 Subrack 2U: 19"(485mm), 12.6"(320mm)
 L x D x H 3.5"(90mm)H
 Weight: 7.2oz (200g)

Power Supplies

Power Input: 5VDC
 Power Connector: DC Power Jack
 Power Consumption: > 2.5 Watts

MeanTime Between

Failures (MTBF): >50,000 hours

Regulatory Compliance:

Manufactured to:

CE, FCC, ROHS
 ISO9001:2000 Standards

Optical performance

Fiber type	Singlemode	Multimode
Wavelength	Laser 1310nm	Laser 1310nm
Output Power	-12 dBm/+2 dBm	-12dBm
Receiver Sensitivity	-23 dBm	-20dBm
Optical Loss Budget	10 dB/25 dB	8dB

