

DFO48412iXP

Fiber Optic Ethernet/POE

4x10/100Mbps Series



DESCRIPTION

The DFO48412iXP Series Ethernet TRX are designed to power up to 4 IP Cameras via POE and transmit/receive 4 x 10/100 Mbps data over one (1) singlemode fiber. Status indicating LED's are available for POE, 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 3U Subrack with 18 slots and built-in, dual power supplies with input voltage 100-240VAC.



FEATURES

- * 4ch POE Media SM Fiber Converters
- * Provides 4x10/100Mbps full duplex or half duplex transmission on 1 MM or SM fiber SC
- * Auto-negotiation and auto-sensing MDI-MDIX, no crossover cables required
- * Ethernet 802.3af , 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 -40°~+70C°
- * POE, Status and Data Traffic LEDs
- * 4 x RJ-45 Ethernet Connector
- * SC Optical Connector on standalone and card
- * 100m POE distance and 20Km on 1 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

DFO48412iXPDYMC 4x10/100Mbps w/POE, Fiber Optic 1 fiber TRX (1310/1550nm) SM, 5VDC SC
DFO48412iXPEYMC 4x10/100Mbps w/POE, Fiber Optic 1 fiber TRX (1550/1310nm) SM, 5VDC SC

Rackmount

DFO48412iXPDYRC 4x10/100Mbps w/POE, Fiber Optic 1 fiber TRX (1310/1550nm) SM, SC
DFO48412iXPEYRC 4x10/100Mbps, w/POE Fiber Optic 1 fiber TRX (1550nm/1310) SM, SC



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Data Performance

Fiber ports: SC for SM fiber
 Electrical Port: 4 x RJ-45 POE 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 802.3af, IEEE 802.3u; IEEE 802.1p, 100BASE-TX, 10BASE-T, 100BASE-FX
 VLANs Support: IEEE 802.1q received and transmitted unchanged

LED Indicators

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

Environmental Parameters

Operating Temperature: -40 °C~70°C
 Storage Temperature: -40 °C~80°C
 Operating Humidity: 5% - 95% (non-condensing)

Mechanical Parameters

Enclosure: Robust Steel sheet metal
 Dimensions Standalone: 6.2"(158mm), 3.93"(100mm)
 L x W x H 1.1"(27mm)
 Dimensions Card: 6.2"(158mm), 3.93"(100mm)
 L X W x H 1.1" (27mm)
 DFO9200 Subrack 2U: 19"(485mm), 12.6"(320mm)
 L x D x H 3.5"(90mm)H
 Weight: 1.8 lb (800g)

Power Supplies

Power Input: 5VDC
 Power Connector: DC Power Jack
 Power Consumption: > 2.5 Watts/idle
 Power Consumption: > 60 Watts/fully loaded

MeanTime Between

Failures (MTBF): >50,000 hours

Regulatory Compliance: CE, FCC, ROHS

Manufactured to: ISO9001:2000 Standards

Optical performance

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

