

**OSD2175MP/48DC 10/100/1000Base-T PoE+ ETHERNET
MEDIA CONVERTER MODULE WITH COMBO PORT**

APPLICATIONS

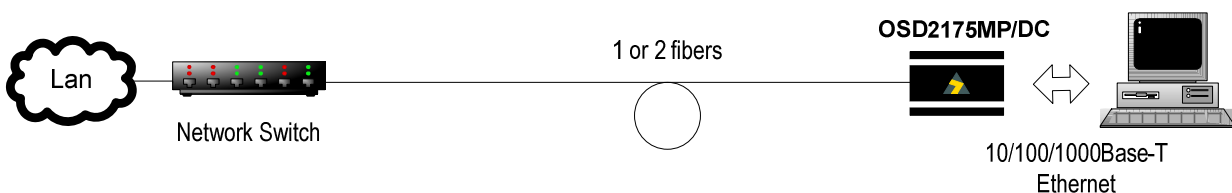
- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications
- ▲ Can function as a fiber/copper media converter or as a multimode/singlemode converter
- ▲ Secure, noise immune extensions of networks using Power over Ethernet such as intercoms, access control, telephones, picocells etc



FEATURES AND BENEFITS

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| <ul style="list-style-type: none"> ▲ Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3z 1000Base-Lx/Sx standards ▲ Supports network traffic of 100Mbps or 1000Mbps. ▲ Has one SFP optical port supporting 100Base-Fx/1000Base-Lx/Sx/Zx and one combo port (SFP priority) comprised of a 100/1000 SFP and a 10/100/1000 RJ45 copper port ▲ Automatic TP setup: no need for crossover cables. ▲ Supports 10KB jumbo frames ▲ Provides up to 30W PoE. ▲ Complies with the IEEE802.3af and IEEE802.3at standards. | <ul style="list-style-type: none"> ▲ Small and robust module powered by -48VDC nominal ▲ Operates over the temperature range of -20 to +65°C ▲ Advanced features like Link Loss Forwarding to detect the link status of link partners either on the fiber and/or copper port ▲ Ethernet Pause frames can be discarded ▲ Ethernet Loopback testing using MAC-address swapping (wire-speed) ▲ Optional Synchronous Ethernet ▲ User selectable auto-negotiation ▲ SFP module(s) sold separately |
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TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

OSD2175MP/48DC Option SE 10/100/1000Base-T to 100Base-Fx/1000Base-Lx/Sx PoE+ Media Converter module powered by -44 to -57VDC Synchronous Ethernet



SPECIFICATIONS

ELECTRICAL

Electrical Data Interface	IEEE802.3i/802.3u/802.3ab, 10/100/1000Base-T Ethernet
Electrical Data Rate	10, 100, 1000Mbps with energy detect, auto negotiate, auto MDIX
Jumbo Frame Support	10KB
Optical Data Interface	IEEE802.3z 1000Base-Lx/Sx or IEEE802.3u 100Base-Fx
Optical Data Rate	100Mbps or 1000Mbps
Operating Mode	Half or full duplex for 10/100 Full duplex for 1000
Electrical Data Connector	RJ45
PoE Operating Mode	IEEE802.3af and IEEE802.3at Alternative B (Pins 4/5, and 7/8)
User Controls	Six externally accessible switches; 1. 100Mbps/1000Mbps for port 1 2. 100Mbps/1000Mbps for port 2 3. Auto-Negotiation On/Off 4. Half-duplex/Full-duplex for copper port 5. Flow control for copper port 6. Link Loss Forwarding Enable/Disable 7. SE Master Select * 8. SE OFF / ON * * Switches 7 & 8 are only used with Option SE supporting Synchronous Ethernet Push Button; MAC-Address Swap Function
Combo Port Selection	SFP used when plugged in, otherwise RJ45
OPTICAL	
Optical Port Connectors	Two SFP
SFP Options	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheets #10210000X (1000Mbps) and 1021000X (100Mbps) or contact OSD
PHYSICAL	
Operating Temperature Range	-20 to +65°C
Relative Humidity	0 to 95% non-condensing
Power Requirements	-44 to -56VDC @ 8W plus up to an extra 30W for PoE operation (attached powered device dependent) ≥52VDC recommended for PoE+
Power Connection	2-way 5.08mm terminal block
Isolation	>4KV
Indicators	Power/Loop Back Active Port 1/Loop Back Active Port 2 Fiber Rx – Link/No Link Fiber Speed Copper link, blink indicates activity Copper Speed PoE SyncE Locked/Unlocked * * SyncE LED only used with Option SE supporting Synchronous Ethernet
Dimensions of Module(mm)	114W x 105D x 32H
Weight of Module (kg)	0.33