

Mini 10/100/1000Base-T to 100Base-Fx/1000Base-X PoE+ Media Converter

Introduction

The OSD2168M is a Power over Ethernet Gigabit Media Converter providing one RJ45 port and one optical fiber port which can be either a fixed optical connector port or an SFP port. The RJ45 port provides up to 30W of power and complies with the IEEE802.3af/at specification. With a compact design the OSD2168M can easily be mounted inside a network enclosure or a Smart Pole using the wall mounting holes provided or mounted on a DIN rail using the OSD DRB02 bracket. A rugged IP30 casing, fan-less design and operating temperature range of -10 to +55°C make this product ideally suited for use in a wide range of environments. An extended temperature version (-20 to +75°C) is also available.

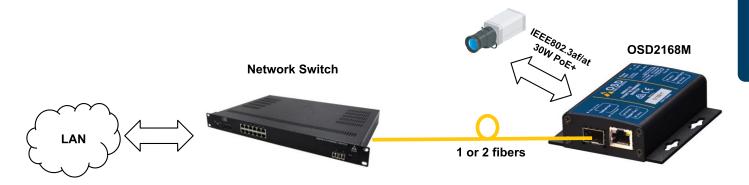


Features and Benefits

- ▲ Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3u 100Base-Fx, IEEE802.3z 1000Base-Lx/Sx standards
- ▲ Complies with the IEEE802.3az Energy-Efficient Ethernet standard
- ▲ One fixed 10/100/1000Base-T copper PoE port supplying 30W of power (IEEE802.3af/at)
- Optical port can be either a fixed optical connector or an SFP port
- ▲ Optical port can be configured to run at either 100Base-Fx or 1000Base-X

- Auto MDI/MDIX on copper ports (support both straight through and crossover cables)
- ▲ Operates over the temperature range of -10 to +55°C. Extended temperature version (-20 to +75°C) available.
- Supports Link Loss Forwarding in case of port failure
- Supports 10KB jumbo frames

Typical System Design

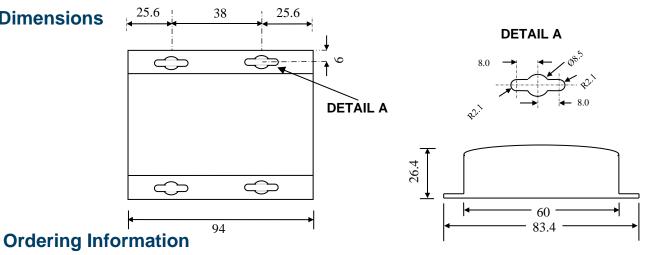


Specifications

Hardware			
Ethernet	10/100/1000Base-T RJ45, IEEE802.3i/802.3	3u/802.3ab	
Jumbo Frame Support	10KB		
SFP Port	SFP port (100Mbps or 1000Mbps user selectable)		
Fixed Optical Port	Duplex or Simplex fixed connector (SC/PC, ST/PC) Various Optical Link Budgets and Wavelengths available. Contact OSD for options		
Optical Data Interface	IEEE802.3u 100Base-Fx, IEEE802.3z 1000Base-Lx/Sx (Lx for SMOF, Sx for MMOF)		
Enclosure Protection Class	IP30		
Installation	Wall mount or desktop (DIN Rail with addition	on of DRB02 bracket)	
DIP Switch (3 Way)	 Optical Port Speed Enable/Disable LLF Port fault detection mode 		
Power Requirements	Input Voltage: +46VDC to +57VDC @ 8W + PoE output power for PD devices. (>52VDC recommended for PoE+). Output PoE Voltage: Vin – Vdrop		
Output PoE Vdrop	PoE voltage drop <0.5V @ 30W		
Power Connector	Male jack 2.1mm/5.5mm power plugs (Switchcraft S761K or equivalent) 2 way 5.08mm terminal block (Extended temperature version)		
Indicators	1 x Copper Link/Activity on RJ45 1 x Port Speed on RJ45 1 x Power On/Off	1 x Link/Act for SFP 1 x LLF Status	
Environmental	-10 to +55°C (Extended temperature version (-20 to +75°C) available)		
Relative Humidity	0 to 95% non-condensing		
Dimensions	83.4W x 94D x 26.4H (mm)		
Weight	280g		

Warranty	
Warranty Period	5 years
MTBF (Ground Benign Environment, 30°C)	581,000 hours

Dimensions



Part No.	Description
OSD2168M/Sx	10/100/1000Base-T to Duplex 1000Base-Sx Media Converter for MMOF (SC connectors)
OSD2168M/Lx	10/100/1000Base-T to Duplex 1000Base-Lx Media Converter for SMOF (SC connectors)
OSD2168M/WLx	10/100/1000Base-T to Simplex 1000Base-WLx Media Converter for SMOF (SC connector)
OSD2168M/SFP	10/100/1000Base-T to Gb SFP Media Converter
Option E	Extended Temperature option, -20 to +75°C
DRB02	DIN Rail mounting bracket for small OSD modules
OSD2000PP/52V/40W	240VAC to 52VDC desktop power supply for use with OSD2168M product family

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