

Introduction

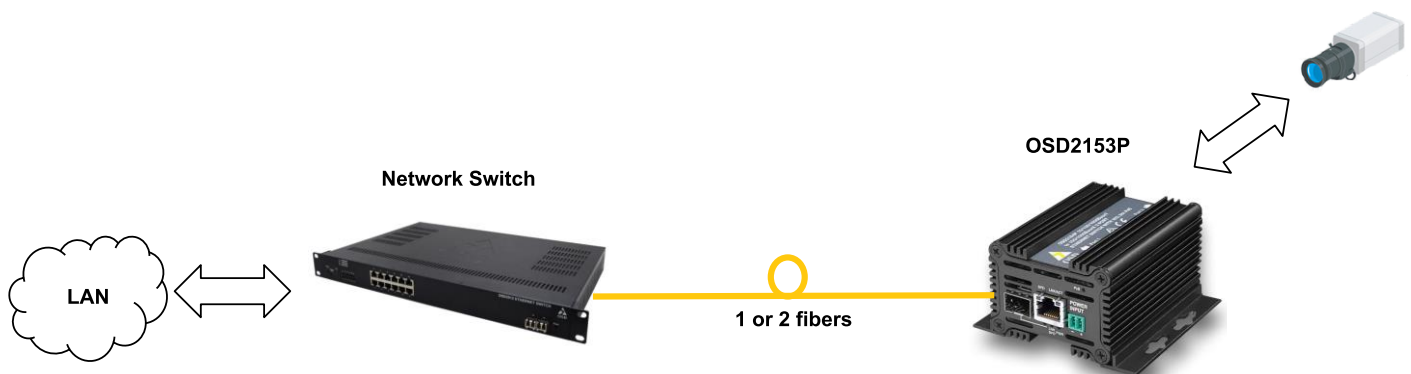
The OSD2153P is a media converter offering Power over Ethernet for devices requiring up to 30W (PoE+) conforming to IEEE802.3af/at. With a compact design the OSD2153P can easily be mounted inside a network enclosure or a Smart Pole using the DIN rail or wall mounting brackets provided. A rugged IP30 casing, fanless design and wide operating temperature range from -20 to +75°C make this product ideally suited for use in a wide range of harsh industrial environments.



Features and Benefits

- ▲ Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3u 100Base-Fx, IEEE802.3z 1000Base-X standards
- ▲ Has one fixed 10/100/1000Base-T copper ports and one 100Mbps/1000Mbps SFP port
- ▲ Auto MDI/MDIX on copper ports (support both straight through and crossover cables)
- ▲ Can be used with either singlemode or multimode fiber over a variety of link budgets
- ▲ Complies with the IEEE802.3af/at PoE standards
- ▲ Provides up to 30W of power from RJ45 port.
- ▲ Powered by non-critical 46 to 57VDC supplies
- ▲ Operates over the temperature range of -20 to +75°C
- ▲ Link Loss Forwarding to detect the link status of link partners either on the fiber and/or copper port
- ▲ Supports 10KB jumbo frames
- ▲ SFP module sold separately
- ▲ DIN rail or surface mounting

Typical System Design



Specifications

Hardware

Ethernet	10/100/1000Base-T RJ45, IEEE802.3i/802.3u/802.3ab
Jumbo Frame Support	10KB
SFP	1 x Gigabit SFP ports (100Mbps or 1000Mbps user selectable)
Optical Data Interface	IEEE802.3u 100Base-Fx , IEEE802.3z 1000Base-X
PoE	IEEE802.3af/at. Maximum 30W (PoE+) output
Enclosure Protection Class	IP30
Installation	DIN rail, wall mount or desktop
DIP Switch	3 way DIP switch for configuration 1. 100 or 1000Mbps on the fiber port 2. LLF On/Off 3. LLF Copper & Fiber ports / Fiber only port
Power Requirements – OSD2153P	Input Voltage: +46VDC to +57VDC @ 6W +PoE output power for PD devices. Output PoE Voltage: $V_{in} - V_{drop}$
Output PoE Vdrop per port	PoE voltage drop per port <0.5V @ 30W
Power Connector	2 way 3.5mm terminal block
Indicators	1 x Copper Link/Activity on RJ45 1x Copper Speed on RJ45 1 x PoE Power On/Off 1 x Power On/Off 1 x LLF Enabled/Disabled 1 x SFP Link/Speed on SFP
Environmental	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Dimensions	90W x 58D x 49H mm
Weight	300g

Warranty

Warranty Period	5 years
MTBF (Ground Benign Environment, 30°C)	728,470 hours

Ordering Information

Part No.	Description
OSD2153P	Gigabit Micro Media Converter with IEEE802.3af/at PoE+
SFP	See OSD SFP datasheets #102100XX, #1021000X

Dimensions

