

OPERATOR MANUAL
OSD2910
IEEE802.3at 10/100/1000BaseT PoE+
ETHERNET EXTENDER WITH
JUMBO FRAME SUPPORT

The OSD2910 is designed to extend PoE and GbE network range to 200 meters ie extending the 100 meter limitation of Ethernet. It is also possible to extend the range as much as 500 meters by daisy chaining. The OSD2910 supports network traffic of 100Mbps or 1000Mbps whilst also supporting jumbo frames. Standard CAT5 or CAT6 cables via the RJ45 connections are required.

Specifications and Features

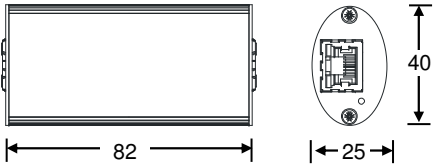
- ▲ Any Network exceeding the 100 meter limitations of Ethernet
- ▲ Industrial and commercial IP communications
- ▲ Secure, noise immune extensions of networks using Power over Ethernet such as intercoms, access control, telephones, picocells etc.

Features and Benefits

- ▲ Complies with IEEE 802.3i/802.3u/802.3ab 10/100/1000Base-T standards.
- ▲ Supports network traffic of 100Mbps or 1000Mbps.
- ▲ Extends the range of PoE and GbE to 200 meters but with daisy chaining this can be as much as 500 meters
- ▲ One ports faces the PSE device, the other the PD device.
- ▲ Supports 10KB jumbo frames.
- ▲ No external powering required: consumes less than 2W of PoE power
- ▲ Complies with the IEEE 802.3af and IEEE 802.3at standards
- ▲ Extremely small and robust
- ▲ Operates over -20 to +75°C temperature range

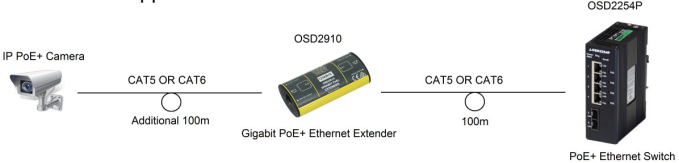
Case Dimensions and Mounting Details

Below is an outer case drawing showing the dimensions in millimeters.



Signal Connection

Cat5 or higher Ethernet cable should be connected to the RJ45 Copper connectors on the OSD2910.



Ports and LED Indicators



Port 1/2 LED indicators

	① (Amber)	② (Green)	③ (Green)
10Mbps Connection	On	On	Off
100Mbps Connection	On	On	On
1000Mbps Connection	Off	On	On
No Power	Off	Off	Off

Note: Flashing/Blinking ① or ③ indicates activity

Technical Specifications

Specification	Performance
Data Interface	IEEE 802.3i/802.3u/802.3ab, 10/100/1000Base-T Ethernet
Data Rate	10,100, 1000Mbps with energy detect, auto negotiate, auto MDIX
Jumbo Frame Support	10KB
Data Connectors	2 x RJ45
PoE Standards	IEEE 802.3af, IEEE 802.3at
Power Pins Assignment	4/5 (+) and 7/8 (-)
Switch Type	Store and forward
Operating Temperature	-20 to 75°C
Relative Humidity	0 to 95% non-condensing
Power Consumption	2W maximum
Dimensions (mm)	40W x 25H x 82L
Weight of Module	50g
Mounting	Surface mounting clip

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▲ **ELECTROMAGNETIC COMPATIBILITY**

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Warranty/Repairs

Thank you for purchasing equipment designed, manufactured and serviced by Optical Systems Design (OSD). OSD warrants that at the time of shipment, its products are free from defects in material and workmanship and conforms to specifications.

For warranty period and repair service please contact your local OSD distributor.

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