

# Optospider™ POF SFP

## A Family of pluggable Optical Polymer Fiber (POF) - Fast Ethernet transceivers





### Description:

DieMount developed the Optospider™ POF SFP transceiver series to open the huge market of glassfiber networking products for POF application.

Optospider™ POF SFP transceivers fit to the rapidly growing number of 100BASE-FX SFP supported network products.



### POF SFP types:

<i>type</i>	<i>wave-length</i>	<i>photo</i>	<i>transmission distance</i>	<i>transmitted optical power</i>	<i>receiver sensitivity</i>
Optospider™ POF SFP 650nm simplex	650nm		30m	-7dBm	-17dBm
Optospider™ POF SFP 470nm simplex	470nm		70m	-1dBm	-14dBm
Optospider™ POF SFP 650nm duplex	650nm		70m	-3dBm	-20dBm
Optospider™ POF SFP 470nm duplex	470nm		120m	+2dBm	-17dBm

**DieMount GmbH**



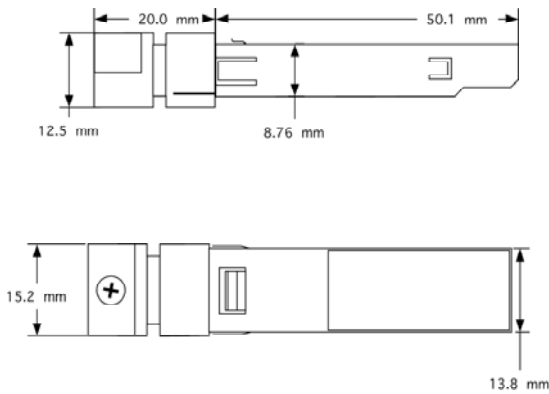
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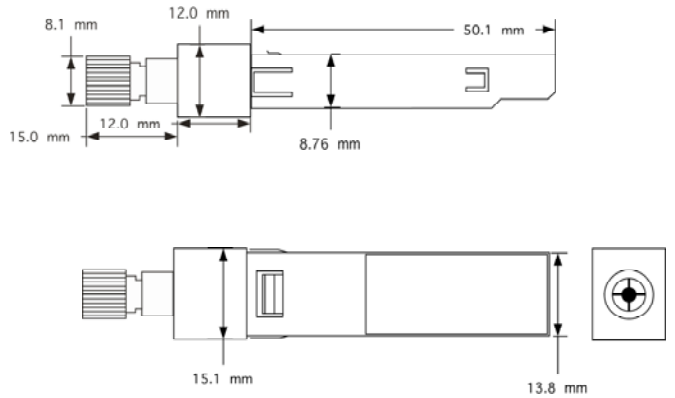
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**Mechanical dimensions:**

**Duplex types:**



**Simplex types:**






Optospider™ POF SFP transceivers, duplex and simplex as well, use connection mechanisms for cable to transceiver connections that avoid the use of optical connectors. This saves costs and cable termination time.

**POF SFP transceiver compatibility:**

At present the DieMount Optospider™ POF SFP transceivers do not comprise an EEPROM memory that allows the network module to read information on the transceiver type. Switches and network modules with 100BASE-FX SFP ports like those listed below do not ask for that information and operate with full functionality.

Network products with full compatibility to Optospider™ POF SFP transceivers are:

<p><b>Wamin CS-Fx2</b></p>	<p>2 100BASE-FX SFP ports, 6 100BASE-TP ports</p> <p>This small switch is designed for small POF LAN apartment networks and for daisy chain installations.</p>	
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<b>ZyXEL ES-3124F</b>	24 100BASE-FX SFP ports, 2 GbE SFP ports, 2 dual personality GbE ports  The ES-3124F is able to distribute optical (FTTH) or electrical local data access to up to 24 apartments in the building.	
<b>WizLAN WM-825 FCF</b>	8 100BASE-FX SFP ports, 1 GbE SFP ports, 1 10/100/1000BaseT RJ-45 port  The WM-825 FCF serves as apartment or intra building central switch with up to 8 optical links. As it doesn't need a fan unit, it can be installed in living and office rooms.	
<b>ZyXEL ES-315F</b>	1 100BASE-FX SFP port, 4 100BASE-T ports  The ES-315F serves as apartment termination for the optical POF intra building network. After final assembly it does not allow the consumer the access to the transceiver.	

The list of compatible network products is ongoing updated.

**Please notice:**

**Optospider™ POF SFP transceivers do not operate in SFP slots designed for GbE only.**

Compatibility of **POF SFP transceivers in dual speed SFP combo ports** requires data communication between the network module and the SFP internal EEPROM. The data in the EEPROM are customer specific in general and do not follow a standard. On request DieMount will provide network module manufacturers POF SFP transceivers comprising an EEPROM for OEM programming by the customer.