

## Product Highlights

### Rugged, Hardened Design

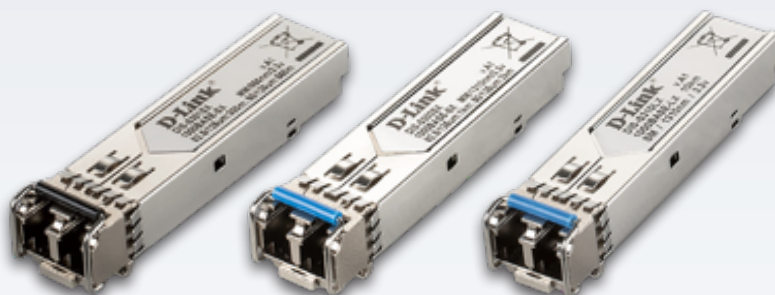
Design to operate in wide temperature ranges, allowing the transceivers to be deployed in enclosures or cabinets in outdoor locations

### Small Form-Factor Pluggable

Compact, standard-based transceivers

### Hot Pluggable

Transceivers can be added or swapped without downtime or interrupting the network



## DIS-S Series

# Industrial SFP Optical Transceivers

## Features

SFP hot pluggable

MSA (Multiple Source Agreement) Compliant

Operating Temperature

- -40°to 85°C

Choice of distances

- 550 m
- 2 km
- 10 km

D-Link's Industrial SFP Optical Transceivers are hot-swappable SFP transceivers that are specifically designed for D-Link Industrial Ethernet switches. The transceivers offer customers a wide variety of connection distance for factory automation, smart and connected city applications.

All the transceivers are standard-based and hot swappable. You can remove or replace the transceiver with the system powered. This allows transceivers to be added or swapped without downtime or interrupting the network.

Contrast to commercial optical transceivers with operating temperature 0~70°C, these Industrial SFP Optical Transceivers have a wider operating temperature range of -40~85°C. This allows the transceivers to be deployed in harsher environmental conditions with extreme temperatures.

## Application

- Challenging environmental conditions
- High ambient temperatures

## Market

- Heavy industrial / factory automation
- Intelligent transport system (ITS) / railway applications
- City surveillance / smart cities

Technical Specifications	DIS-S301SX		DIS-S302SX	DIS-S310LX
Description	1000BASE-SX Multi-Mode 550M LC SFP Transceiver		1000BASE-SX Multi-Mode 2KM LC SFP Transceiver	1000BASE-LX Single-Mode 10KM LC SFP Transceiver
Standard				
Compliant Standard	IEEE802.3z 1000BASE-SX			IEEE802.3z 1000BASE-LX
MSA Compliant	Yes			
Transceiver Type	SFP			
Fiber Channel FC-Pi standard	100-M6-SN-I/100-M5-SN-I	-		100-SM-LC-L
Fiber Media support	Multi-Mode			Single-Mode
Distance	62.5/125um: 300m 50/125um: 550m	62.5/125um fiber: 1km 50/125um fiber: 2km		10km
Speed	1.25Gbps			
Interface				
Connector	Duplex LC Connector			
Single/Bi Direction	Single-direction			
Wavelength	850nm	1310nm		
Output Optical Power (TX Optical Power)	MAX.: -3dBm, MIN.: -8 dBm	-3dBm, -9dBm		MAX.: -3dBm, MIN.: -8 dBm
Input Optical Power (RX Optical Power)	MAX.: - 3 dBm, MIN.: - 22 dBm	-3dBm, -22dBm		MAX.: - 3 dBm, MIN.: - 24 dBm
Sensitivity	-22dBm			-24dBm
Cable Type	multi-mode 50/125um or 62.5/125um fiber			Single-mode 9/125um fibre
Operating				
Power	3.3V			
Max Input Current	300mA			
Power Budget (MIN Power Budget)	14 dB	13 dB		16 dB
MAX Power Budget	19 dB	19 dB		21 dB
Heat Generated	1.782kJ/h	2.376 kJ/h		2.376 kJ/h
Physical & Environment				
Operating Temperature Range	-40 to +85°C			
Storage Temperature Range	-40 to +85 °C			
Humidity (Non-Condensing)	5 to 95% RH			
Dimension ( W x D x H )	13.7 x 55.4 x 8.5 mm			
Weight	20 g			
MTBF	224,167 hours	224,167 hours		223,857 hours
Bail latch color	Black	Blue		
Emission (EMI) and Safety Certifications				
EMI	CE, FCC, VCCI			
Safety	LVD, EN 60825-1, EN 60825-2			



For more information: [www.dlink.com](http://www.dlink.com)

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