

SFP Transceiver Modules

Version 01 / 06.07.2022

Products

700-997-1AM01 SFP Transceiver 1,25 GBit/s, LC-Port optical, Single mode 1310nm, up to 10 km

700-997-1AN01 SFP Transceiver 1,25 GBit/s, LC-Port optical, Single mode 1310nm, up to 40 km

700-998-1AD01 SFP Transceiver 1,25 GBit/s, LC-Port optical, Multimode 850nm, up to 500 m

700-998-1AG01 SFP Transceiver 1,25 GBit/s, LC-Port optical, Multimode 1310nm, up to 2 km

Area of application

The Helmholz SFP transceiver modules are intended for use in Helmholz FLEXtra switches but can also be used in other switches with a compatible SFP port.

The modules support an Ethernet transmission rate of 1 Gbit/s. The SFP transceiver modules should always be installed in pairs with a technically suitable fiber optic cable.



ATTENTION

CLASS 1 LASER

The SFP modules are approved as Laser Class 1 according to IEC 60825-1. Please observe the relevant safety regulations for the use of laser products.



Mounting / Usage

Insert the SFP module into a free SFP port in the switch. Fold down the locking clip and remove the blind plug. Now insert the LC connector into the SFP module and flip the bracket up. The module is now mechanically locked in the SFP port and you can put the switch into operation.



NOTE

SFP modules may be plugged and unplugged during operation. Please note that plugging or unplugging during operation may disrupt the communication of the system.



WARNING

Improper installation can damage the device or impair its operation. Before installing the device, always make sure that there is no visible damage to the device.

A SFP module for multimode has a black bracket, a SFP module for single mode has a blue bracket. To protect the connectors, they are provided with a blind plug.

General features

- SFP ("Small form factor Pluggable") Modul
- Duplex LC-Port
- Single mode- (700-997-xxx) or Multi mode fiber (700-998-xxx)
- Data rate 1,25 Gbit/s, NRZ
- Single 3,3V Power Supply
- Compatible with SFF-8472 Digital Diagnostic Monitoring Interface
- Compatible with IEEE-802.3z Gigabit Ethernet

Technical data

Order number	700-997-1AM01
Name	SFP Transceiver 1,25 GBit/s, LC-Port optical, Single mode 1310nm, up to 10 km
Scope of delivery	SFP Transceiver Modul
Dimensions (D x W x H)	56,5 x 13,7 x 8,95 mm
Weight	ca. 17 g
Interface	
- Connection	Duplex LC
- Fiber	Single mode
- Type	1310nm FP LD
- Transmitter	Laser diode Class1 Laser "Eye safe"
- Data rate	1,25 Gbit/s, für IEEE-802.3z Gigabit applications
- Distance	10 km
Voltage supply	3,3V on SFP-Port
Current draw	300 mA at 3,3 V DC
Power dissipation	1,0 W
Ambient temperature	-40 °C ... +85 °C
Transport and storage temperature	-40 °C ... +85 °C
Relative air humidity	95 r H without condensation
Protection rating	IP20
Certifications	CE, RoHS

Order number	700-997-1AN01
Name	SFP Transceiver 1,25 GBit/s, LC-Port optical, Single mode 1310nm, up to 40 km
Scope of delivery	SFP Transceiver Modul
Dimensions (D x W x H)	56,5 x 13,7 x 8,95 mm
Weight	ca. 17 g
Interface	
- Connection	Duplex LC
- Fiber	Single mode
- Type	1310nm FP LD
- Transmitter	Laser diode Class1 Laser "Eye safe"
- Data rate	1,25 Gbit/s, für IEEE-802.3z Gigabit applications
- Distance	40 km
Voltage supply	3,3V on SFP-Port
Current draw	300 mA at 3,3 V DC
Power dissipation	1,0 W
Ambient temperature	-40 °C ... +85 °C
Transport and storage temperature	-40 °C ... +85 °C
Relative air humidity	95 r H without condensation
Protection rating	IP20
Certifications	CE, RoHS

Order number	700-998-1AD01
Name	SFP Transceiver 1,25 Gbit/s, LC-Port optical, Multimode 850nm, up to 500 m
Scope of delivery	SFP Transceiver Modul
Dimensions (D x W x H)	56,5 x 13,7 x 8,95 mm
Weight	ca. 17 g
Interface	
- Connection	Duplex LC
- Fiber	Multimode
- Type	850nm VCSEL
- Transmitter	Laser diode Class1 Laser "Eye safe"
- Data rate	1,25 Gbit/s, für IEEE-802.3z Gigabit applications
- Distance	500 m
Voltage supply	3,3V on SFP-Port
Current draw	240 mA at 3,3 V DC
Power dissipation	0,8 W
Ambient temperature	-40 °C ... +85 °C
Transport and storage temperature	-40 °C ... +85 °C
Relative air humidity	95 r H without condensation
Protection rating	IP20
Certifications	CE, RoHS

Order number	700-998-1AG01
Name	SFP Transceiver 1,25 Gbit/s, LC-Port optical, Multimode 1310nm, up to 2 km
Scope of delivery	SFP Transceiver Modul
Dimensions (D x W x H)	56,5 x 13,7 x 8,95 mm
Weight	ca. 17 g
Interface	
- Connection	Duplex LC
- Fiber	Multimode
- Type	1310nm FP LD
- Transmitter	Laser diode Class1 Laser "Eye safe"
- Data rate	1,25 Gbit/s, für IEEE-802.3z Gigabit applications
- Distance	2 km
Voltage supply	3,3V on SFP-Port
Current draw	300 mA at 3,3 V DC
Power dissipation	1,0 W
Ambient temperature	-40 °C ... +85 °C
Transport and storage temperature	-40 °C ... +85 °C
Relative air humidity	95 r H without condensation
Protection rating	IP20
Certifications	CE, RoHS

Note:

The contents of this document have been checked by us for conformity with the hardware and software described. However, since deviations cannot be ruled out, we cannot guarantee complete conformity. However, the information in this document is updated regularly. When using the purchased products, please always observe the latest version of the document, which can be viewed and downloaded on the Internet at www.helmholz.de.