

SFP Copper Transceivers

100 Mbit/s and 1 Gbit/s Ethernet SFPs

- **Increased flexibility for your application**
 - Improved utilization of switch or router
 - Expand the copper network using the same device
 - Adds an extra RJ-45 Ethernet port to the device
- **Robust Ethernet TX technologies**
 - Multiple options to fit many applications
 - 100Base TX and 1000BaseT options
 - 100 m range over CAT 5e Ethernet cable
- **Robust and reliable**
 - Thoroughly tested to high standards
 - Wide operating temperature range, -40 to +85°C
 - Functionality validated for mission critical applications
- **Full WeOS support**
 - Transceivers and WeOS developed in symbiosis
 - All functionality available
 - Technical support and know-how



The SFP copper transceivers make it possible to increase the number of available copper Ethernet ports in any device featuring Small Form-factor Pluggable (SFP) slots. An SFP copper transceiver is a very cost effective solution when an additional Ethernet port is needed. Many applications require an FRNT ring over fibre, which only requires two SFP slots. The remainder can be filled with copper transceivers, allowing additional industrial equipment to be connected over the same network without the need for an additional switch.

SFP Copper transceivers are available in both Gigabit and Fast Ethernet variants, to fulfil any specific requirements. The Fast Ethernet variant supports 100BaseTX, allowing for a cost effective way to add a 100 Mbit/s Ethernet port. The Gigabit Ethernet variant supports 1000BaseT, with auto negotiation. Both variants have a range of 100 metres, specified by the Ethernet standard and supports auto negotiation, catering for easy setup.

All SFP copper transceivers are thoroughly tested in accordance with high demands. Each model has gone through rigorous environmental testing, to ensure that it can perform according to specification even in the harshest environments. Furthermore, functionality is validated and pushed to the limit, securing availability and reliability in mission critical applications.

WeOS, the Westermo operating system, is developed according to firm requirements, and support for the full range of transceivers offered is an important part. All features of WeOS are developed and verified to be fully supported on all WeOS devices with any Westermo transceiver installed.

Specifications - SFP Copper Transceivers

Housing	
Dimensions device (W x H x D)	13,75/15 x 17,63 x 68,50/70 (0.54/0.59 x 0,69 x 2.70/2.76 inches)
Dimensions protrusion (W x H x D)	13,75/15 x 13,8 x 26,41/23,5 (0.54/0.59 x 0,54 x 1.04/1.09 inches)
Weight	25 g

Environmental	
Operating temperature	-40 to +85°C (-40 to +185°F)
Storage and transport temperatures	-40 to +85°C (-40 to +185°F)
Humidity (operational)	5 to 95% relative humidity
MTBF hours	Please, contact your local sales/support for details

Interface		
Model	TX100	GTX100
Ethernet	10/100BaseTX, auto negotiation, RJ-45	10/100/1000Base-T, auto negotiation, RJ-45
Range	100 m	100 m

Type	Approval/Compliance
EMC	EN 50121-4, Railway and telecommunications apparatus
Safety	EN/IEC 60825-1, Laser products - part 1: Equipment classification and requirement EN/IEC 60825-2, Laser products - part 2: Safety of optical fibre communication systems EN/IEC/UL 62368-1, Audio/video, information and communication technology equipment UL 60950-1, IT security

Ordering information	
Art. no.	Description
1100-0172	TX100 - SFP copper transceiver, RJ-45, 100 m, 10/100BaseTX
1100-0179	GTX100 - SFP copper transceiver, RJ-45, 100 m, 1000BaseT