

Singlemode SFP Transceivers

Fast Ethernet Fibre Optic Transceivers

- **Short and long range fibre optic communication**
 - Short and long range installations on 9/125 µm fibre cables
 - Real time monitoring of the SFP using DDM, integrated with WeOS
 - Available in 20,40,80 and 120 km variants
- **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



Westermo's 100 Mbit/s singlemode SFPs are suitable for short- and long-range applications. The available models can use singlemode fibre cables with a core of 9 µm. Using the DDM functionality, which is fully integrated into WeOS, it is possible to monitor parameters such as temperature, TX/RX power, and voltage, ensuring correct operation.

As industrial networks transmit more data, 100 Mbit/s fiber links can be used to connect data-intensive sites across long distances. Setting up network backbones over extended ranges is now possible. The SFPs are tested with the WeOS platform and are offered in multiple different variants, with indicative ranges from 20 to 120 km.

All Westermo's SFP 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 designed to meet the toughest requirements, and full support for all offered transceivers is a crucial aspect. All features of WeOS are extensively tested and verified to be fully supported on any WeOS device with a Westermo transceiver installed.

Specifications - Singlemode SFP Transceivers

Housing	
Dimensions device (W x H x D)	14 x 13 x 57 mm (0.55 x 0.51 x 2.24 inches)
Dimensions protosion (W x H x D)	14 x 13 x 9 mm (0.55 x 0.51 x 0.35 inches)

Environmental	
Operating temperature	-40 to +85°C (-40 to +185°F)
Storage and transport temperatures^a	-40 to +85°C (-40 to +185°F)
Humidity (operating)	5-95% relative humidity

^aCase operating temperature

Interface				
Model	SLC20-DDM	SLC40-DDM	SLC80-DDM	SLC120-DDM
Connector type	Duplex LC			
Transceiver type	Singlemode			
Clasp colour	Blue			
Transmission speed	100 Mbit/s			
Transmit wavelength	1310 nm	1310 nm	1550 nm	1550 nm
Transmit power (max)	-8 dBm	0 dBm	0 dBm	5 dBm
Transmit power (min)	-15 dBm	-5 dBm	-5 dBm	0 dBm
Receive wavelength	1310 nm	1310 nm	1550 nm	1550 nm
Receiver power/sensitivity (min)	-32 dBm	-35 dBm	-35 dBm	-35 dBm
Receiver power (max)	0 dBm	0 dBm	0 dBm	0 dBm
Power budget	24 dBm	30 dBm	30 dBm	35 dB
Indicative range	20 km	40 km	80 km	120 km

Diagnostics (DDM)	
Parametres	Accuracy
Temperature	±3°C
Voltage	± 0.1 VDC
Bias current	± 10% or 5 mA
TX power	± 3 dBm
RX power	± 3 dBm

Approvals	
EMC	EN 50121-4/IEC 62236-4, Railway signalling 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

Warranty	
Validity	5 years

Ordering information	
Art. no.	Description
1100-0532	SLC20-DDM
1100-0533	SLC40-DDM
1100-0534	SLC80-DDM
1100-0540	SLC120-DDM