

2.5 Gbit/s SFP Transceivers

Multi- & Singlemode Fibre Optic Transceivers



- **High bandwidth with 2.5 Gbit**
 - Utilize high bandwidth fibre connectivity
 - Suitable for use with the Lynx-3510 series
- **Short and long range fibre optic communication**
 - Real time monitoring of the SFP using DDM, integrated with WeOS
 - Available in various 0.5 km, 20 km, 40 km and 80 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



EN 50121-4
Railway Trackside

EN 60825-1
Safety of Laser Products

EN 60825-2
Safety of Laser Products



The 2.5 Gbit/s SFPs are ideal for high-bandwidth, short- and long-range applications. These models utilize singlemode fibre cables with a 9 µm core, and come equipped with DDM functionality that's fully integrated into WeOS. This feature enables monitoring of critical parameters like temperature, TX/RX power, and voltage, ensuring optimal performance.

With industrial networks transmitting ever-increasing amounts of data, the 2.5 Gbit/s fibre links are a reliable option to connect data-intensive sites across long distances. Backbones with high bandwidth can now be established over lengthy distances. The SFPs are compatible with the Lynx-3510 series platform and are available in multiple variants, covering ranges from 500 m to 80 km.

To meet the high demands of mission-critical applications, all SFP transceivers undergo thorough environmental testing to ensure they can perform under the harshest conditions. Additionally, their functionality is pushed to the limit to guarantee availability and reliability.

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 - 2.5 Gbit/s 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	2.5GMLC.5	2.5GSLC20	2.5GSLC40	2.5GSLC80
Connector type	Duplex LC			
Transceiver type	Multimode	Singlemode		
Clasp colour	Black	Blue		
Transmission speed	2.5 Gbit/s			
Transmit wavelength	850 nm	1310 nm	1550 nm	1550 nm
Transmit power (max)	-1 dBm	0 dBm	1 dBm	6 dBm
Transmit power (min)	-7.5 dBm	-5 dBm	-4 dBm	1 dBm
Receive wavelength	850 nm	1310 nm	1550 nm	1550 nm
Receiver power/sensitivity (min)	-13.5 dBm	-16 dBm	-19 dBm	-23 dBm
Receiver power (max)	0 dBm	0 dBm	1 dBm	0 dBm
Power budget	6 dBm	11 dBm	15 dBm	24 dBm
Indicative range	OM1: 75 m OM2: 160 m OM3: 400 m OM4: 500 m	20 km	40 km	80 km

Diagnostics (DDM)	
Parametres	Accuracy
Temperature	±3°C
Voltage	± 0.1 VDC
Bias current	± 10%
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
1100-0606	2.5GMLC.5
1100-0620	2.5SLC20
1100-0640	2.5SLC40
1100-0680	2.5SLC80