

## 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 0.5, 20, 40 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





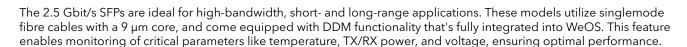


EN 60825-1 Safety of Laser Products EN 60825-2









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 protrosion (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 <sup>a.</sup> | -40 to +85°C (-40 to +185°F) |
| Humidity (operating)                             | 5-95% relative humidity      |

<sup>&</sup>lt;sup>a.</sup>Case operating temperature

| Interface                        |   |                      |           |           |
|----------------------------------|---|----------------------|-----------|-----------|
| Model                            | 2.5GMLC.5   | 2.5GSLC20            | 2.5GSLC40 | 2.5GSLC80 |
| Connector type                   | Duplex LC   |                      |           |           |
| Transceiver type                 | Multimode   | Multimode Singlemode |           |           |
| Clasp colour                     | Black   | 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<br>OM2: 160 m<br>OM3: 400 m<br>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    |

