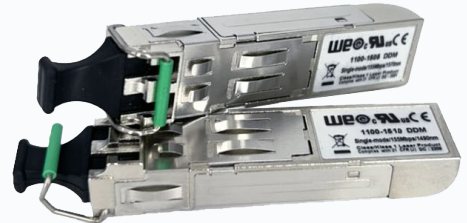


## Singlemode CWDM SFP Transceivers Gigabit Fibre Optic Transceivers with Coarse Wave Dimension Multiplexing

- **Increased network capacity**
  - Send up to 8 optical signals on a single fibre core with CWDM SFPs
  - Each signal operates at a specific wavelength allowing simultaneous transmission
  - Utilize high bandwidth fibre connectivity with 1 Gbit/s
  - Real time monitoring of the SFP using DDM, integrated with WeOS
- **Robust and reliable**
  - Thoroughly tested to high standards
  - Wide operating temperature range, -30 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



Westermo's range of 1 Gbit singlemode SFPs with CWDM are suitable for long-range applications that require high bandwidth. A CWDM transceiver enables increased network capacity by sending up to 8 optical signals on a single fibre core where each signal operates at a specific wavelength, allowing simultaneous transmission. 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, 1 Gbit/s fibre links can be used to link data-intensive sites across long distances. Setting up high bandwidth network backbones over long distances is now possible and CWDM transceivers can increase the capacity by using different wavelengths for data communication over the same fibre link. The SFPs are tested and optimized for compatibility with the WeOS platform and are offered in multiple different variants with an indicative range of 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 - Singlemode CWDM SFP Transceivers

Housing	
<b>Dimensions device (W x H x D)</b>	14 x 13 x 57 mm (0.55 x 0.51 x 2.24 inches)
<b>Dimensions protrosion (W x H x D)</b>	14 x 13 x 9 mm (0.55 x 0.51 x 0.35 inches)

Environmental	
<b>Operating temperature</b>	-30 to +85°C (-22 to +185°F)
<b>Storage and transport temperatures<sup>a</sup></b>	-40 to +85°C (-40 to +185°F)
<b>Humidity (operating)</b>	5-95% relative humidity

<sup>a</sup>Case operating temperature

Interface								
Model	GSLC50-CWDM-1470	GSLC50-CWDM-1490	GSLC50-CWDM-1510	GSLC50-CWDM-1530	GSLC50-CWDM-1550	GSLC50-CWDM-1570	GSLC50-CWDM-1590	GSLC50-CWDM-1610
<b>Connector type</b>	Duplex LC							
<b>Transceiver type</b>	Singlemode							
<b>Clasp colour</b>	Green							
<b>Transmission speed</b>	1 Gbit/s							
<b>Transmit wavelength</b>	1470 nm	1490 nm	1510 nm	1530 nm	1550 nm	1570 nm	1590 nm	1610 nm
<b>Transmit power (max)</b>	1 dBm							
<b>Transmit power (min)</b>	-4 dBm							
<b>Receive wavelength</b>	Min: 1460 nm Max: 1620 nm							
<b>Receiver power/sensitivity (min)</b>	-24 dBm							
<b>Receiver power (max)</b>	0 dBm							
<b>Power budget</b>	20 dBm							
<b>Indicative range</b>	80 km							

Diagnostics (DDM)	
Parametres	Accuracy
<b>Temperature</b>	±3°C
<b>Voltage</b>	± 0.1 VDC
<b>Bias current</b>	± 5 mA
<b>TX power</b>	± 3 dBm
<b>RX power</b>	± 3 dBm

Approvals	
<b>EMC</b>	EN 50121-4/IEC 62236-4, Railway signalling and telecommunications apparatus
<b>Safety</b>	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	
<b>Validity</b>	5 years

**Ordering information**

<b>Art. no.</b>	<b>Description</b>
<b>1100-1510</b>	GSLC50-CWDM-1470
<b>1100-1511</b>	GSLC50-CWDM-1490
<b>1100-1512</b>	GSLC50-CWDM-1510
<b>1100-1513</b>	GSLC50-CWDM-1530
<b>1100-1514</b>	GSLC50-CWDM-1550
<b>1100-1515</b>	GSLC50-CWDM-1570
<b>1100-1516</b>	GSLC50-CWDM-1590
<b>1100-1517</b>	GSLC50-CWDM-1610