# S1G-L200-Cxx

**1.25G CWDM SFP | 40 dB | Up to 200 km | DDM**

## 1. Product overview

The GLOBALfiber S1G-L200-Cxx is a single-mode CWDM SFP transceiver for Gigabit Ethernet, Fibre Channel and long-distance optical networks. A high-power CWDM DFB laser and an APD receiver provide a stated minimum optical power budget of 40 dB. Reach is up to 200 km, depending on fiber attenuation and link design.

## 2. Key features

- Data rate up to 1.25 Gb/s; minimum optical budget 40 dB
- 18 CWDM wavelengths from 1270 to 1610 nm; 20 nm spacing
- Hot-pluggable SFP MSA form factor with duplex LC interface
- High-power DFB transmitter and high-sensitivity APD receiver
- SFF-8472 Digital Diagnostic Monitoring (DDM)
- Single +3.3 V supply; Class 1 laser; RoHS compliant

## 3. Applications

Gigabit Ethernet; Metro Ethernet; CWDM transport; enterprise backbone; utility communications; Industrial Ethernet; Fibre Channel; XDSL transport; data center interconnect; telecom access and aggregation.




## 4. Technical data

| Parameter | Specification |
|---|---|
| Form factor / line data rate | SFP / 1.25 Gb/s |
| Fiber / connector | Single-mode 9/125 um / duplex LC |
| Optical reach | Up to 200 km; depends on attenuation and link design |
| Channel count / spacing | 18 CWDM wavelengths / 20 nm (ITU-T G.694.2) |
| Transmitter / receiver | High-power CWDM DFB laser / APD |
| Hot-pluggable | Yes |

## 5. Recommended operating conditions

| Parameter | Specification |
|---|---|
| Operating temperature | 0°C to +70°C |
| Supply voltage | Single +3.3 V |
| Maximum supply current | 300 mA (Commercial/Extended); 600 mA (Industrial) |
| Power dissipation | Not specified in watts |
| Storage temperature | Not specified |

# S1G-L200-Cxx

## 6. Optical characteristics

| Parameter | Specification |
|---|---|
| Wavelength range | 1270-1610 nm |
| CWDM channel spacing | 20 nm |
| TX optical power | +4 to +7 dBm |
| Receiver sensitivity | = -38 dBm |
| Maximum receiver input power | -10 dBm |
| Minimum optical power budget | 40 dB |
| Operating distance | Up to 200 km, depending on fiber attenuation and link design |

## 7. Digital diagnostics and management

Digital Diagnostic Monitoring (DDM) compliant with SFF-8472 supports real-time optical performance monitoring. Monitoring accuracy, alarm thresholds and calibration details are not specified.

## 8. Safety and regulatory

| Parameter | Specification |
|---|---|
| Ethernet | IEEE 802.3z Gigabit Ethernet |
| Form factor | SFP Multi-Source Agreement (MSA) |
| Digital diagnostics | SFF-8472 |
| Fibre Channel | Fibre Channel 1X; SM-LC-L FC-PI |
| CWDM grid | ITU-T G.694.2 |
| Laser safety | IEC 60825 Class 1 |
| Environmental compliance | RoHS compliant |

## 9. Ordering information

| Parameter | Specification |
|---|---|
| Product number | S1G-L200-Cxx |
| Description | SFP, 1 GbE eZR, DDM, up to 200 km, CWDM, 40 dB, single-mode, duplex LC |
| Wavelength selection | Specify the required CWDM wavelength when ordering |

Reach depends on the complete optical link, including fiber attenuation and passive component losses.