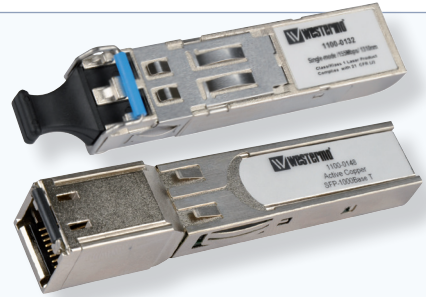


# Gigabit Transceivers

## RedFox, Lynx series and ODW-700 series

- ⌘ Wide choice to provide optimal solution
  - 1000 Mbit/s versions
  - Standard LC connector type
- ⌘ Verified to meet Westermo environmental specifications
  - Temperature range -40 to +85°C (-40 to +185°F)
  - Coded to guarantee quality
- ⌘ Different transceivers for many solutions
  - Multi mode fibre up to 2 km (1.2 mi)
  - Single mode fibre up to 120 km (74.5 mi)
  - Bi-directional fibre transceivers up to 120 km (74.5 mi)
  - Gbit copper transceivers



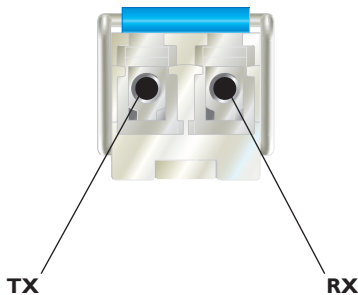
**EN 60825-1**  
Eye Safety: Class 1 laser product complies

The Westermo range of Small Form-factor Pluggable (SFP) transceivers covers versions suitable for Gigabit applications. LC connectors are used as standard due their small size.

These transceivers have been verified to meet the Westermo environmental specification and can operate in a range of different Westermo products in harsh industrial applications. The transceivers are coded to allow confirmation that certified versions have been installed.

Versions are available with different wave length including 1550 nm for extreme distances upto 120 km (74.5 mi) and 1310 nm version for both single (9/125) and multimode cables (50/125 and 62.5/125). In applications where only a single fibre core is available a Bi-Directional (BiDi) transceiver can be used.

### Interfaces



### How far can we get with transceivers?

The different transceiver options are marked with an indicative range as a part of the transceiver description. This is the specified distance when the transceiver is used in Gbit applications.

For the ODW series the maximum distance (km) can be calculated with the formula:

Power budget (dB) – signal loss (dB) / fibre attenuation (db) per km.

*Signal loss = splice attenuation x number of splices + connector attenuation x number of connectors + safety margin. Splice, connector and fibre attenuation can be found on article data sheets.*

By calculating the maximum distance based on power budget a LC2 multimode transceiver can operate up to 5 km (3.1 mi).

# Specifications Optical Transceivers

## Dimensional / Temperature

|                           |   |
|---------------------------|---|
| Temperature specification | -40 to +85°C (-40 to +185 °F)<br>0 to +70 °C (32 to +158 °F) GTX100, copper |
|---------------------------|---|

| Article number         | Transceiver       | Type       | Link speed (Mbit/s) | Indicative range (km) | Power budget (dB) | TX/RX wavelength (nm) | WeOS | ODW series | All Gig MCW/SDW | EX appr. |
|------------------------|-------------------|------------|---------------------|-----------------------|-------------------|-----------------------|------|------------|-----------------|----------|
| <b>SFP, 1 Gbit</b>     |                   |            |                     |                       |                   |                       |      |            |                 |          |
| 1100-0144              | GMLC550-SX**      | Multimode  | 1000                | 0.55                  | 8.5               | 850/850               | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0147              | GMLC2-SX+***      | Multimode  | 1000                | 2                     | 10                | 1310/1310             | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0141              | GSLC10-LX         | Singlemode | 1000                | 10                    | 10.5              | 1310/1310             | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0125              | GSLC30-LXH        | Singlemode | 1000                | 30                    | 20                | 1310/1310             | ⚡*   | –          | ⚡               | –        |
| 1100-0142              | GSLC50-XD         | Singlemode | 1000                | 50                    | 20                | 1550/1550             | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0143              | GSLCLC80-ZX       | Singlemode | 1000                | 80                    | 24                | 1550/1550             | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0171              | GSLC110-EZX       | Singlemode | 1000                | 120                   | 30                | 1550/1550             | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0156              | GSLC20-BiDi-A     | Singlemode | 1000                | 20                    | 15                | 1310/1490             | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0157              | GSLC20-BiDi-B     | Singlemode | 1000                | 20                    | 15                | 1490/1310             | ⚡*   | –          | ⚡               | ⚡        |
| <b>Copper, 1 Gbit</b>  |                   |            |                     |                       |                   |                       |      |            |                 |          |
| 1100-0148              | GTX100            | Copper     | 1000                | 0.1                   | –                 | –                     | ⚡*   | –          | ⚡               | ⚡        |
| <b>DDM SFP, 1 Gbit</b> |                   |            |                     |                       |                   |                       |      |            |                 |          |
| 1100-0547              | GMLC2-DDM***      | Multimode  | 1000                | 2                     | 10                | 1310/1310             | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0525              | GSLC30-DDM        | Singlemode | 1000                | 30                    | 20                | 1310/1310             | ⚡*   | –          | ⚡               | –        |
| 1100-0541              | GSLC10-DDM        | Singlemode | 1000                | 10                    | 12                | 1310/1310             | ⚡*   | –          | ⚡               | –        |
| 1100-0542              | GSLC50-DDM        | Singlemode | 1000                | 50                    | 20                | 1550/1550             | ⚡*   | –          | ⚡               | ⚡        |
| 1100-0543              | GSLC80-DDM        | Singlemode | 1000                | 80                    | 24                | 1550/1550             | ⚡*   | –          | ⚡               | –        |
| 1100-0558              | GSLC20-BiDi-A-DDM | Singlemode | 1000                | 20                    | 15                | 1310/1550             | ⚡*   | –          | ⚡               | –        |
| 1100-0559              | GSLC20-BiDi-B-DDM | Singlemode | 1000                | 20                    | 15                | 1550/1310             | ⚡*   | –          | ⚡               | –        |
| 1100-0566              | GSLC60-BiDi-A-DDM | Singlemode | 1000                | 60                    | 25                | 1310/1550             | ⚡*   | –          | ⚡               | –        |
| 1100-0567              | GSLC40-BiDi-A-DDM | Singlemode | 1000                | 40                    | 20                | 1310/1490             | ⚡*   | –          | ⚡               | –        |
| 1100-0568              | GSLC40-BiDi-B-DDM | Singlemode | 1000                | 40                    | 20                | 1490/1310             | ⚡*   | –          | ⚡               | –        |
| 1100-0569              | GSLC60-BiDi-B-DDM | Singlemode | 1000                | 60                    | 25                | 1550/1310             | ⚡*   | –          | ⚡               | –        |
| 1100-0526              | GSLC80-BiDi-A-DDM | Singlemode | 1000                | 80                    | 22                | 1510/1570             | ⚡*   | –          | ⚡               | –        |
| 1100-0527              | GSLC80-BiDi-B-DDM | Singlemode | 1000                | 80                    | 22                | 1570/1510             | ⚡*   | –          | ⚡               | –        |

\* N.B. Cannot be used in RFI-F8/F16 modules

\*\* N.B. 300 m indicative range on 62.5/125 µm, 550 m on 50/125 µm fibre

\*\* N.B. Minimum reach: 220 m on 62.5/125 µm, 550 m on 50/125 µm fibre dependent on fibre category OM1, 2, 3 or 4