

# SFP Fiber Transceiver

SFP Fiber Transceiver Series



## Gigabit Ethernet

+ Non-Hardened (Operating Temperature: 0 to 70°C/32 to 158°F)



| Single LC                            | Distance | Cable Type              | Wavelength               | Link Budget** | Optical Output Power | Sensitivity |
|--------------------------------------|----------|-------------------------|--------------------------|---------------|----------------------|-------------|
| EX-1250TBP-MB1LS                     | 550m     | 62.5/125µm/50/125µm, MM | TX: 1310nm<br>RX: 1550nm | 7dBm          | -10 to -4dBm         | -17dBm      |
| EX-1250TBP-LB1LS                     | 550m     | 62.5/125µm/50/125µm, MM | TX: 1550nm<br>RX: 1310nm | 7dBm          | -10 to -4dBm         | -17dBm      |
| EX-1250TBP-MB4LS                     | 10Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 12dBm         | -9 to -3dBm          | -21dBm      |
| EX-1250TBP-KB4LS                     | 10Km     | 9/125µm, SM             | TX: 1550nm<br>RX: 1310nm | 12dBm         | -9 to -3dBm          | -21dBm      |
| EX-1250TBP-MB5LS                     | 20Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 15dBm         | -8 to -3dBm          | -23dBm      |
| EX-1250TBP-KB5LS                     | 20Km     | 9/125µm, SM             | TX: 1550nm<br>RX: 1310nm | 15dBm         | -8 to -3dBm          | -23dBm      |
| EX-LS38-C3L-TC-N-CE (DDM)            | 40Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 20dBm         | -3 to +2dBm          | -23dBm      |
| EX-LS48-C3L-TC-N-CE (DDM)            | 40Km     | 9/125µm, SM             | TX: 1550nm<br>RX: 1310nm | 20dBm         | -3 to +2dBm          | -23dBm      |
| EX-LS38-C3U-TC-N-CE (DDM)            | 60Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 24dBm         | 0 to +5dBm           | -24dBm      |
| EX-LS48-C3U-TC-N-CE (DDM)            | 60Km     | 9/125µm, SM             | TX: 1550nm<br>RX: 1310nm | 23dBm         | -2 to +4dBm          | -25dBm      |
| EX-LS48-C3U-TC-N51-CE (1510nm) (DDM) | 80Km     | 9/125µm, SM             | TX: 1510nm<br>RX: 1570nm | 24dBm         | -2 to +3dBm          | -26dBm      |
| EX-LS48-C3U-TC-N57-CE (1570nm) (DDM) | 80Km     | 9/125µm, SM             | TX: 1570nm<br>RX: 1510nm | 24dBm         | -2 to +3dBm          | -26dBm      |

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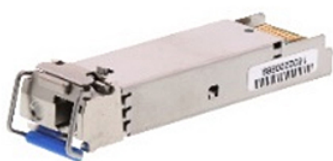
| Duplex LC                 | Distance     | Cable Type              | Wavelength | Link Budget** | Optical Output Power | Sensitivity |
|---------------------------|--------------|-------------------------|------------|---------------|----------------------|-------------|
| SFPGIM5AC (DDM)           | 275m<br>550m | 62.5/125µm/50/125µm, MM | 850nm      | 7.5dBm        | -19 to -14dBm        | -17dBm      |
| SFPGIM02C (DDM)           | 2Km          | 62.5/125µm, MM          | 1310nm     | 13.5dBm       | -9.5 to -3dBm        | -23dBm      |
| EX-1250TSP-MB4LS          | 10km         | 9/125 µm, SM            | 1310nm     | 10.5dBm       | -9.5 to -3dBm        | -20dBm      |
| SFPGIS10C (DDM)           | 10Km         | 9/125µm, SM             | 1310nm     | 11.5dBm       | -9.5 to -3dBm        | -21dBm      |
| EX-1250TSP-MB5LS          | 20Km         | 9/125µm, SM             | 1310nm     | 15dBm         | -9 to -3dBm          | -24dBm      |
| EX-LS38-C3L-TC-N-EB (DDM) | 40Km         | 9/125µm, SM             | 1310nm     | 20dBm         | -3 to +2dBm          | -23dBm      |
| EX-LS48-C3U-TC-N-EB (DDM) | 70Km         | 9/125µm, SM             | 1550nm     | 23dBm         | 0 to +5dBm           | -23dBm      |
| SFPGIS90C (DDM)           | 90Km         | 9/125µm, SM             | 1550nm     | 27dBm         | 0 to +5dBm           | -27dBm      |

**+ Hardened (Operating Temperature: -40 to 85°C/-40 to 185°F)**



| RJ-45     | Distance | Cable Type       | Wavelength | Link Budget** | Optical Output Power | Sensitivity |
|-----------|----------|------------------|------------|---------------|----------------------|-------------|
| SFPGXT1AM | 100m     | Cat. 5 or better | -          | -             | -                    | -           |

**+ Hardened (Operating Temperature: -40 to 85°C/-40 to 185°F)**



| Single LC                 | Distance | Cable Type              | Wavelength               | Link Budget** | Optical Output Power | Sensitivity |
|---------------------------|----------|-------------------------|--------------------------|---------------|----------------------|-------------|
| EX-1250TBP-MB1L-AS        | 550m     | 62.5/125µm/50/125µm, MM | TX: 1310nm<br>RX: 1550nm | 7dBm          | -10 to -4dBm         | -17dBm      |
| EX-1250TBP-LB1L-AS        | 550m     | 62.5/125µm/50/125µm, MM | TX: 1550nm<br>RX: 1310nm | 7dBm          | -10 to -4dBm         | -17dBm      |
| EX-LM38-C3S-TI-N-CE (DDM) | 550m     | 62.5/125µm, MM          | TX: 1310nm<br>RX: 1550nm | 8dBm          | -10 to +2dBm         | -18dBm      |
| EX-LM48-C3S-TI-N-CE (DDM) | 550m     | 62.5/125µm, MM          | TX: 1550nm<br>RX: 1310nm | 10dBm         | -8 to 0dBm           | -18dBm      |
| EX-1250TBP-MB4L-AS        | 10Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 12dBm         | -9 to -3dBm          | -21dBm      |
| EX-1250TBP-KB4L-AS        | 10Km     | 9/125µm, SM.            | TX: 1550nm<br>RX: 1310nm | 12dBm         | -9 to -3dBm          | -21dBm      |
| EX-1250TBP-MB5L-AS        | 20Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 15dBm         | -8 to -3dBm          | -23dBm      |
| EX-1250TBP-KB5L-AS        | 20Km     | 9/125µm, SM             | TX: 1550nm<br>RX: 1310nm | 15dBm         | -8 to -3dBm          | -23dBm      |
| SFPGYS20M (DDM)           | 20Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 15dBm         | -8 to -2dBm          | -23dBm      |
| SFPGZS20M (DDM)           | 20Km     | 9/125µm, SM             | TX: 1550nm<br>RX: 1310nm | 15dBm         | -8 to -2dBm          | -23dBm      |
| EX-LS38-C3L-TI-N-CE (DDM) | 40Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 20dBm         | -3 to +2dBm          | -23dBm      |
| EX-LS48-C3L-TI-N-CE (DDM) | 40Km     | 9/125µm, SM             | TX: 1550nm<br>RX: 1310nm | 20dBm         | -3 to +2dBm          | -23dBm      |
| EX-LS38-C3U-TI-N-CE (DDM) | 60Km     | 9/125µm, SM             | TX: 1310nm<br>RX: 1550nm | 24dBm         | 0 to +5dBm           | -24dBm      |
| EX-LS48-C3U-TI-N-CE (DDM) | 60Km     | 9/125µm, SM             | TX: 1550nm<br>RX: 1310nm | 23dBm         | -2 to +4dBm          | -25dBm      |

**+** Hardened (Operating Temperature: -40 to 85°C/-40 to 185°F)



| Duplex LC                 | Distance     | Cable Type                 | Wavelength | Link Budget** | Optical Output Power | Sensitivity |
|---------------------------|--------------|----------------------------|------------|---------------|----------------------|-------------|
| SFPGIM5AM (DDM)           | 275m<br>550m | 62.5/125µm/50/125µm,<br>MM | 850nm      | 7.5dBm        | -9.5 to -4dBm        | -17dBm      |
| SFPGIM02M (DDM)           | 2Km          | 50/125µm, MM               | 1310nm     | 13.5dBm       | -9.5 to -3dBm        | -23dBm      |
| SFPGIS10M (DDM)           | 10Km         | 9/125µm, SM                | 1310nm     | 11.5dBm       | -9.5 to -3dBm        | -21dBm      |
| SFPGIS20M (DDM)           | 20Km         | 9/125µm, SM                | 1310nm     | 15dBm         | -8 to -3dBm          | -23dBm      |
| EX-LS38-C3L-TI-N-EB (DDM) | 40Km         | 9/125µm, SM                | 1310nm     | 20dBm         | -3 to +2dBm          | -23dBm      |
| EX-LS48-C3U-TI-N-EB (DDM) | 70Km         | 9/125µm, SM                | 1550nm     | 23dBm         | 0 to +5dBm           | -23dBm      |

\* More SFP options upon the request.

\*\* Link Budget data is based on pair of the same SFP modules.

