

SFP Fiber Transceiver

SFP光纖模組系列



產品規格

+ Regulatory Compliance

Compliant with Multi-Sourcing Agreement (MSA)
Small Form Factor Pluggable (SFP)
Eye Safety: Compliant with Class 1 laser safety requirements EN 60825-1
Environmental: RoHS compliant, lead-free
EMC: FCC part 15, CENELEC EN 55022

+ Power Supply Voltage

Single +3.3V

+ Operating Temperature

Hardened: -40 to 85°C (-40 to 185°F)
Non-Hardened: 0 to 70°C (32 to 158°F)

+ Warranty

Go to [Warranty policy](#) for more details

Fast Ethernet

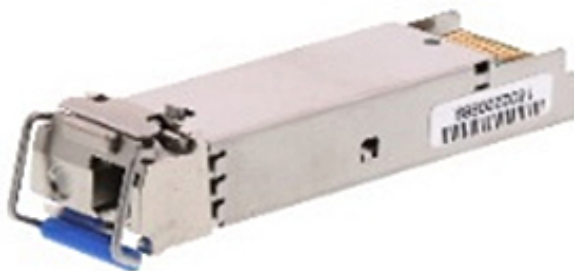
+ FAST ETHERNET (100Mbps)

Duplex LC



| Part Number | Mode | Distance | Operating Temperature | Wavelength |
|-------------------|--------|----------|-----------------------|------------|
| EX-0155NSP-MB2L | Multi | 2km | 0 to 70°C | 1310nm |
| SFPMIM02C (DDM) | Multi | 2km | 0 to 70°C | 1310nm |
| EX-0155NSP-MB2L-A | Multi | 2km | -40 to 85°C | 1310nm |
| EX-0155TSP-MB5L | Single | 15km | 0 to 70°C | 1310nm |
| EX-0155TSP-MB5L-A | Single | 15km | -40 to 85°C | 1310nm |
| SFPMIS20M (DDM) | Single | 20km | -40 to 85°C | 1310nm |
| EX-0155TSP-MB6L | Single | 40km | 0 to 70°C | 1310nm |
| EX-0155TSP-MB6L-A | Single | 40km | -40 to 85°C | 1310nm |

Single LC (used in pairs)



| Part Number | Mode | Distance | Operating Temperature | Wavelength |
|---------------------|-------|----------|-----------------------|--------------------------|
| EX-LM38-A3S-TC-N-B3 | Multi | 2km | 0 to 70°C | TX: 1310nm RX: 1550nm |
| EX-LM48-A3S-TC-N-B5 | Multi | 2km | 0 to 70°C | TX: 1310nm RX: 1550nm |
| EX-LM38-A3S-TI-N-B3 | Multi | 2km | -40 to 85°C | TX: 1310nm RX: 1550nm |
| EX-LM48-A3S-TI-N-B5 | Multi | 2km | -40 to 85°C | TX: 1310nm RX: 1550nm |

| | | | |
|-------------------|------------|-------------|--------------------------|
| EX-0155TBP-MB5L | Single20km | 0 to 70°C | TX: 1310nm RX: 1550nm |
| EX-0155TBP-LB5L | Single20km | 0 to 70°C | TX: 1310nm RX: 1550nm |
| EX-0155TBP-MB5L-A | Single20km | -40 to 85°C | TX: 1310nm RX: 1550nm |
| SFPMYS20M (DDM) | Single20km | -40 to 85°C | TX: 1310nm RX: 1550nm |
| EX-0155TBP-LB5L-A | Single20km | -40 to 85°C | TX: 1550nm RX: 1310nm |
| SFPMZS20M (DDM) | Single20km | -40 to 85°C | TX: 1550nm RX: 1310nm |
| EX-0155TBP-MB6L-A | Single40km | -40 to 85°C | TX: 1310nm RX: 1550nm |
| EX-0155TBP-KB6L-A | Single40km | -40 to 85°C | TX: 1310nm RX: 1550nm |

RJ45



| Part Number | Cable Type | Distance | Operating Temperature |
|-------------|-----------------|----------|-----------------------|
| SFPMXT1AC | Cat 5 or better | 100m | 0 to 70°C |

EtherWAN's SFP modules are rigorously tested, 100% and are interoperable with all MSA compliant networking devices. EtherWAN offers a variety of options for both commercial and hardened environments, which provides flexible connectivity solutions.

For detailed SFP specifications, please download the [datasheet](#).

Gigabit Ethernet

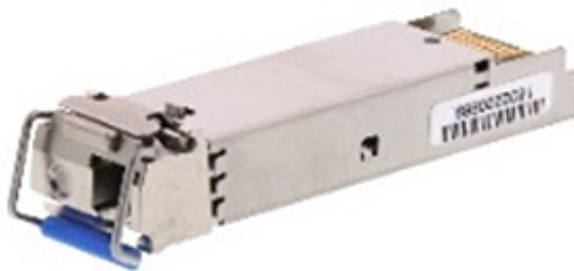
+ GIGABIT ETHERNET (1000Mbps)

Duplex LC



| Part Number | Mode | Distance | Operating Temperature | Wavelength | DDM |
|---------------------|--------|-----------|-----------------------|------------|-----|
| SFPGIM5AC | Multi | 275m/550m | 0 to 70°C | 850nm | ✓ |
| SFPGIM5AM | Multi | 275m/550m | -40 to 85°C | 850nm | ✓ |
| SFPGIM02C | Multi | 2km | 0 to 70°C | 1310nm | ✓ |
| SFPGIM02M | Multi | 2km | -40 to 85°C | 1310nm | ✓ |
| EX-1250TSP-MB4LS | Single | 10km | 0 to 70°C | 1310nm | |
| SFPGIS10C | Single | 10km | 0 to 70°C | 1310nm | ✓ |
| SFPGIS10M | Single | 10km | -40 to 85°C | 1310nm | ✓ |
| EX-1250TSP-MB5LS | Single | 20km | 0 to 70°C | 1310nm | - |
| SFPGIS20M | Single | 20km | -40 to 85°C | 1310nm | ✓ |
| EX-LS38-C3L-TC-N-EB | Single | 40km | 0 to 70°C | 1310nm | ✓ |
| EX-LS38-C3L-TI-N-EB | Single | 40km | -40 to 85°C | 1550nm | ✓ |
| EX-LS48-C3U-TC-N-EB | Single | 70km | 0 to 70°C | 1550nm | ✓ |
| EX-LS48-C3U-TI-N-EB | Single | 70km | -40 to 85°C | 1310nm | ✓ |
| SFPGIS90C | Single | 90km | 0 to 70°C | 1550nm | ✓ |

Single LC (used in pairs)



| Part Number | Mode | Distance | Operating Temperature | Wavelength | DDM |
|------------------|-------|----------|-----------------------|---------------------------|-----|
| EX-1250TBP-MB1LS | Multi | 550m | 0 to 70°C | TX: 1310nm/ RX: 1550nm | - |

| | | | | |
|-----------------------|------------|-------------|---------------------------|---|
| EX-1250TBP-LB1LS | Multi 550m | 0 to 70°C | TX: 1550nm/ RX: 1310nm | - |
| EX-1250TBP-MB1L-AS | Multi 550m | -40 to 85°C | TX: 1310nm/ RX: 1550nm | - |
| EX-1250TBP-LB1L-AS | Multi 550m | -40 to 85°C | TX: 1550nm/ RX: 1310nm | - |
| EX-LM38-C3S-TI-N-CE | Multi 550m | -40 to 85°C | TX: 1310nm/ RX: 1550nm | ✓ |
| EX-LM48-C3S-TI-N-CE | Multi 550m | -40 to 85°C | TX: 1550nm/ RX: 1310nm | ✓ |
| EX-1250TBP-MB4LS | Single10km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | - |
| EX-1250TBP-KB4LS | Single10km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | - |
| EX-1250TBP-MB4L-AS | Single10km | -40 to 85°C | TX: 1310nm/ RX: 1550nm | - |
| EX-1250TBP-KB4L-AS | Single10km | -40 to 85°C | TX: 1550nm/ RX: 1310nm | - |
| EX-1250TBP-MB5LS | Single20km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | - |
| EX-1250TBP-KB5LS | Single20km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | - |
| EX-1250TBP-MB5L-AS | Single20km | -40 to 85°C | TX: 1310nm/ RX: 1550nm | - |
| EX-1250TBP-KB5L-AS | Single20km | -40 to 85°C | TX: 1550nm/ RX: 1310nm | - |
| SFPGYS20M | Single20km | -40 to 85°C | TX: 1310nm/ RX: 1550nm | ✓ |
| SFPGZS20M | Single20km | -40 to 85°C | TX: 1550nm/ RX: 1310nm | ✓ |
| EX-LS38-C3L-TC-N-CE | Single40km | 0 to 70°C | TX: 1550nm/ RX: 1310nm | ✓ |
| EX-LS48-C3L-TC-N-CE | Single40km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | ✓ |
| EX-LS38-C3L-TI-N-CE | Single40km | -40 to 85°C | TX: 1550nm/ RX: 1310nm | ✓ |
| EX-LS48-C3L-TI-N-CE | Single40km | -40 to 85°C | TX: 1310nm/ RX: 1550nm | ✓ |
| EX-LS38-C3U-TC-N-CE | Single60km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | ✓ |
| EX-LS48-C3U-TC-N-CE | Single60km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | ✓ |
| EX-LS38-C3U-TI-N-CE | Single60km | -40 to 85°C | TX: 1310nm/ RX: 1550nm | ✓ |
| EX-LS48-C3U-TI-N-CE | Single60km | -40 to 85°C | TX: 1310nm/ RX: 1550nm | ✓ |
| EX-LS48-C3U-TC-N51-CE | Single80km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | ✓ |
| EX-LS48-C3U-TC-N57-CE | Single80km | 0 to 70°C | TX: 1310nm/ RX: 1550nm | ✓ |

RJ45



| Part Number | Cable Type | Distance | Operating Temperature |
|-------------|-----------------|----------|-----------------------|
| SFPGXT1AM | Cat 5 or better | 100m | -40 to 85°C |

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2.5 Gigabit Ethernet

+ 2.5G BASE SFP Series*

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



| Duplex LC | Distance | Cable Type | Wavelength | Link Budget* | Optical Output Power | Sensitivity |
|-----------------|----------------------|--|------------|--------------|----------------------|-------------|
| SFP21M2AM (DDM) | 160m 400m 500m | OM2 (50/125µm, MM) OM3 (50/125µm, MM) OM4 (50/125µm, MM) | 850nm | 850nm | -7.5 to -1dBm | -13.5dBm |
| SFP21S20M (DDM) | 20Km | 9/125µm, SM | 1310nm | 1310nm | -5 to 0dBm | -16dBm |



| RJ45 | Distance | Cable Type | Wavelength | Link Budget* | Optical Output Power | Sensitivity |
|-----------|----------|-------------------|------------|--------------|----------------------|-------------|
| SFP2XT1AM | 100m | Cat. 5A or better | N/A | - | - | - |

* More SFP options upon the request.

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

10GBASE SFP Series*

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



| Duplex LC | Distance | Cable Type | Wavelength | Link Budget** | Optical Output Power | Sensitivity |
|-----------------|----------|-------------------------|------------|---------------|----------------------|-------------|
| SFPTIM3AE (DDM) | 300m | 62.5/125µm/50/125µm, MM | 850nm | 2.8dBm | -7.1 to -1dBm | -9.9dBm |
| SFPTIS10E (DDM) | 10Km | 9/125µm, SM | 1310nm | 8.4dBm | -6 to +0.5dBm | -14.4dBm |
| SFPTIS20C (DDM) | 20Km | 9/125µm, SM | 1310nm | 9.4dBm | -5 to +1dBm | -14.4dBm |
| SFPTIS40C (DDM) | 40Km | 9/125µm, SM | 1310nm | 15dBm | -0.5 to +5dBm | -15.5dBm |

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



| Duplex LC | Distance | Cable Type | Wavelength | Link Budget** | Optical Output Power | Sensitivity |
|-----------------|----------|-------------------------|------------|---------------|----------------------|-------------|
| SFPTIM3AM (DDM) | 300m | 62.5/125µm/50/125µm, MM | 850nm | 2.8dBm | -7.1 to -1dBm | -9.9dBm |
| SFPTIS10M (DDM) | 10Km | 9/125µm, SM | 1310nm | 6.4dBm | -8 to +0.5dBm | -14.4dBm |
| SFPTIS20M (DDM) | 20Km | 9/125µm, SM | 1310nm | 9.4dBm | -5 to +1dBm | -14.4dBm |
| SFPTIS40M (DDM) | 40Km | 9/125µm, SM | 1310nm | 15dBm | 0.5 to +5dBm | -15.5dBm |



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



| RJ-45 | Distance | Cable Type | Wavelength | Link Budget** | Optical Output Power | Sensitivity |
|-----------|----------|-----------------|------------|---------------|----------------------|-------------|
| SFPTXT1AM | 100m | Cat.6a or above | - | - | - | - |

* More SFP options upon the request.

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

