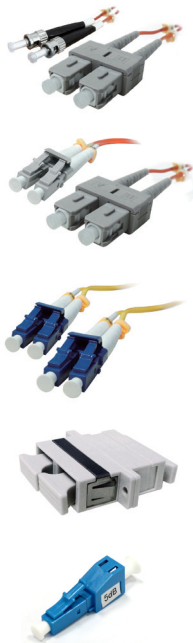


Product Selection Guide

Accessories



| Fiber Patch Cord(FPC)/ Fiber Patch Adapter(FCA)/ Fiber Attenuator(FAT) | | | | | |
|--|-------------------|------------|-------------|-------------|---------------|
| Model Name | Optical Connector | Multi-mode | Single-mode | Diameter | Specification |
| FPC-SCSC-MM3M | SC / SC | • | | 62.5/125 μm | 3 m |
| FPC-SCSC-SS3M | SC / SC | | • | 9/125 μm | 3 m |
| FPC-SCLC-MM3M | SC / LC | • | | 62.5/125 μm | 3 m |
| FPC-SCLC-SS3M | SC / LC | | • | 9/125 μm | 3 m |
| FPC-SCST-MM3M | SC / ST | • | | 62.5/125 μm | 3 m |
| FPC-SCST-SS3M | SC / ST | | • | 9/125 μm | 3 m |
| FPC-LCLC-MM3M | LC / LC | • | | 62.5/125 μm | 3 m |
| FPC-LCLC-SS3M | LC / LC | | • | 9/125 μm | 3 m |
| FCA-SC-MM | SC / SC | • | | 62.5/125 μm | - |
| FCA-SC-SS | SC / SC | | • | 9/125 μm | - |
| FAT-LC-SS05 | LC / LC | | • | 9/125 μm | 5 db |
| FAT-LC-SS10 | LC / LC | | • | 9/125 μm | 10 db |
| FAT-LC-SS15 | LC / LC | | • | 9/125 μm | 15 db |
| FAT-LC-SS20 | LC / LC | | • | 9/125 μm | 20 db |



| DIN-Rail Power Supply | |
|-----------------------|--|
| Regular Type | |
| Model Name | Description |
| NDR-75-12 | 75W DIN-Rail 12VDC/6.3A (voltage adjustable 12~14VDC) Power Supply with universal 100 to 240VAC input, -20~70°C |
| NDR-75-24 | 75W DIN-Rail 24VDC/3.2A (voltage adjustable 24~28VDC) Power Supply with universal 100 to 240VAC input, -20~70°C |
| NDR-75-48 | 75W DIN-Rail 48VDC/1.6A (voltage adjustable 48~55VDC) Power Supply with universal 100 to 240VAC input, -20~70°C |
| NDR-120-12 | 120W DIN-Rail 12VDC/10A (voltage adjustable 12~14VDC) Power Supply with universal 100 to 240VAC input, -20~70°C |
| NDR-120-24 | 120W DIN-Rail 24VDC/5A (voltage adjustable 24~28VDC) Power Supply with universal 100 to 240VAC input, -20~70°C |
| NDR-120-48 | 120W DIN-Rail 48VDC/2.5A (voltage adjustable 48~55VDC) Power Supply with universal 100 to 240VAC input, -20~70°C |
| SDR-240-48 | 240W DIN-Rail 48VDC/5A Power Supply with 100 to 240VAC input , -25~70°C |
| SDR-480-48 | 480W DIN-Rail 48VDC/10A Power Supply with 100 to 240VAC input , -25~70°C |
| Extended Type | |
| Model Name | Description |
| DRP024V060W1BN | 60W DIN-Rail 24VDC/2.5A Power Supply with universal 100 to 240VAC input, extended type, -25~80°C |
| DRP024V120W1BN | 120W DIN-Rail 24VDC/5A Power Supply with universal 100 to 240VAC input, extended type, -25~80°C |
| DRP024V240W1BN | 240W DIN-Rail 24VDC/10A Power Supply with universal 100 to 240VAC input, extended type, -25~80°C |
| DRP024V480W1BN | 480W DIN-Rail 24VDC/20A Power Supply with universal 100 to 240VAC input, extended type, -25~80°C |
| DRP048V060W1BN | 60W DIN-Rail 48VDC/1.25A Power Supply with universal 100 to 240VAC input, extended type, -25~80°C |
| DRP048V120W1BN | 120W DIN-Rail 48VDC/2.5A Power Supply with universal 100 to 240VAC input, extended type, -25~80°C |
| DRP048V240W1BN | 240W DIN-Rail 48VDC/5A Power Supply with universal 100 to 240VAC input, extended type, -25~80°C |
| DRP048V480W1BN | 480W DIN-Rail 48VDC/10A Power Supply with universal 100 to 240VAC input, extended type, -25~75°C |

Product Selection Guide



| Power Cord with Ferrule terminal (For Din-Rail Power Supply) | |
|--|---|
| Model Name | Description |
| PCF-AU | Power Cord with Ferrule terminal, AU plug |
| PCF-UK | Power Cord with Ferrule terminal, UK plug |
| PCF-US | Power Cord with Ferrule terminal, US plug |
| PCF-EU | Power Cord with Ferrule terminal, EU plug |
| PCF-JP | Power Cord with Ferrule terminal, JP plug |



| Power Adapter | |
|---------------|--|
| Model Name | Description |
| PAA-121000 | 12VDC/1000mA 12W Power Adapter with universal 100 to 240VAC input, US plug, 0~40°C |
| PAE-121000 | 12VDC/1000mA 12W Power Adapter with universal 100 to 240VAC input, EU plug, 0~40°C |
| PAA-482500 | 48VDC/2500mA 120W Power Adapter with universal 100 to 240VAC input, US power cord, -30~70°C |
| PAE-482500 | 48VDC/2500mA 120W Power Adapter with universal 100 to 240VAC input, EU power cord, -30~70°C |
| PAX-482500 | 48VDC/2500mA 120W Power Adapter with universal 100 to 240VAC input, without power cord, -30~70°C |
| PAA-502400 | 50VDC/2400mA 120W Power Adapter with universal 100 to 240VAC input, US power cord, -10~50°C |
| PAE-502400 | 50VDC/2400mA 120W Power Adapter with universal 100 to 240VAC input, EU power cord, -10~50°C |

*Note: Other plugs upon request.



| M-Series Cables and connectors | | |
|--------------------------------|---|--------------|
| Model Name | Description | Cable Length |
| M12C-4M4M-300 | 4-pin M12 Male to 4-pin M12 Male IP-67 Ethernet Cable, 3m, A-coding | 3 m |
| M12C-4M4F-1000 | 4-pin M12 Male to 4-pin M12 Female IP-67 Ethernet Cable, 10m, A-coding | 10 m |
| M12C-4M4F-3000 | 4-pin M12 Male to 4-pin M12 Female IP-67 Ethernet Cable, 30m, A-coding | 30 m |
| M12C-4MRJ-300 | 4-pin M12 Male to RJ45 plug Ethernet Cable, 3m, A-coding | 3 m |
| M12C-4M4M-300D | 4-pin M12 Male to 4-pin M12 Male IP-67 Ethernet Cable, 3m, D-coding | 3 m |
| M12C-4M4F-1000D | 4-pin M12 Male to 4-pin M12 Female IP-67 Ethernet Cable, 10m, D-coding | 10 m |
| M12C-4M4F-3000D | 4-pin M12 Male to 4-pin M12 Female IP-67 Ethernet Cable, 30m, D-coding | 30 m |
| M12C-4MRJ-300D | 4-pin M12 Male to RJ45 Plug Ethernet Cable, 3m, D-coding | 3 m |
| M12C-5MDB9-300 | 5-pin M12 Male to DB9 console Cable, 3m, A-coding | 3 m |
| M12C-5M00-300 | 5-pin M12 Male to Tin-plated Bare Wire Power Cable, 3m, A-coding | 3 m |
| M12C-5M5F-1000 | 5-pin M12 Male to 5-pin M12 Female IP-67 Cable, 10m, A-coding | 10 m |
| M12C-5M5F-3000 | 5-pin M12 Male to 5-pin M12 Female IP-67 Cable, 30m, A-coding | 30 m |
| M12C-8M8M-300 | 8-pin M12 Male to 8-pin M12 Male IP-67 Ethernet Cable, 3m, A-coding | 3 m |
| M12C-8M8F-1000 | 8-pin M12 Male to 8-pin M12 Female IP-67 Ethernet Cable, 10m, A-coding | 10 m |
| M12C-8M8F-3000 | 8-pin M12 Male to 8-pin M12 Female IP-67 Ethernet Cable, 30m, A-coding | 30 m |
| M12C-8MRJ-300 | 8-pin M12 Male to RJ45 plug Ethernet Cable, 3m, A-coding | 3 m |
| M12C-8M8M-300X | 8-pin M12 Male to 8-pin M12 Male IP-67 Ethernet Cable, 3m, X-coding | 3 m |
| M12C-8M8F-1000X | 8-pin M12 Male to 8-pin M12 Female IP-67 Ethernet Cable, 10m, X-coding | 10 m |
| M12C-8M8F-3000X | 8-pin M12 Male to 8-pin M12 Female IP-67 Ethernet Cable, 30m, X-coding | 30 m |
| M12C-8MRJ-300X | 8-pin M12 Male to RJ45 plug Ethernet Cable, 3m, X-coding | 3 m |
| M23C-5M00-300 | 5-pin M23 Male to Tin-plated Bare Wire Power Cable, 3m, A-coding | 3 m |
| 7/8C-5F00-300 | 5-pin 7/8 inch Female to Tin-plated Bare Wire Power Cable, 3m, A-coding | 3 m |
| M12P-4MD | 4-pin M12 Male Assembled Plug, Soldering type, D-coding | - |
| M12P-4MD-C | 4-pin M12 Male Assembled Plug, IDC type, D-coding | - |
| M12P-4FS-S | 4-pin M12 Female Assembled Plug, Screw type, S-coding | - |
| M12P-5MA | 5-pin M12 Male Assembled Plug, Soldering type, A-coding | - |

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| | | |
|-------------|--|---|
| M12P-5MA-C | 5-pin M12 Male Assembled Plug, IDC type, A-coding | - |
| M12P-5FA | 5-pin M12 Female Assembled Plug, Soldering type, A-coding | - |
| M12P-5FA-C | 5-pin M12 Female Assembled Plug, IDC type, A-coding | - |
| M12P-8MA | 8-pin M12 Male Assembled Plug, Soldering type, A-coding | - |
| M12P-8MA-C | 8-pin M12 Male Assembled Plug, IDC type, A-coding | - |
| M12P-8FA | 8-pin M12 Female Assembled Plug, Soldering type, A-coding | - |
| M12P-8FA-C | 8-pin M12 Female Assembled Plug, IDC type, A-coding | - |
| M12P-8MX-C | 8-pin M12 Male Assembled Plug, IDC type, X-coding | - |
| M23P-5MA | 5-pin M23 Male Assembled Plug, Soldering type, A-coding | - |
| M23P-5MAR-S | 5-pin M23 Male Assembled Plug, Screw type, A-coding, right angled | - |
| 7/8P-5FA | 5-pin 7/8 inch Female Assembled Plug, Soldering type, A-coding | - |
| 7/8P-5FAR-S | 5-pin 7/8 inch Female Assembled Plug, Screw type, A-coding, right angled | - |



| RF Antenna Base (Magnetic) | | |
|----------------------------|--|--------------|
| Model Name | Description | Cable Length |
| RFB-M2-150 | N Female Magnetic WLAN RF Antenna Base, Cable length 1.5m, with SMA Male RS connector | 1.5 m |
| RFB-M2-1000 | N Female Magnetic WLAN RF Antenna Base, Cable length 10m, with SMA Male RS connector | 10 m |
| RFB-M3-150 | SMA Female RS Magnetic WLAN RF Antenna Base, Cable length 1.5m, with SMA Male RS connector | 1.5m |



| RF Cable | | |
|------------------|---|--------------|
| Model Name | Description | Cable Length |
| RFC-SFR-SMR-1000 | Low loss RF Cable, Cable length 10m, RP-SMA Female to RP-SMA Male connector | 10 m |
| RFC-SF-SMR-150 | Low loss RF Cable, Cable length 1.5m, SMA Female to RP-SMA Male connector | 1.5 m |
| RFC-SM-SMR-150 | Low loss RF Cable, Cable length 1.5m, SMA Male to RP-SMA Male connector | 1.5 m |
| RFC-NM-SMR-150 | Low loss RF Cable, Cable length 1.5m, N Male to RP-SMA Male connector | 1.5 m |
| RFC-NM-SMR-500 | Low loss RF Cable, Cable length 5m, N Male to RP-SMA Male connector | 5m |
| RFC-NM-SMR-1000 | Low loss RF Cable, Cable length 10m, N Male to RP-SMA Male connector | 10 m |
| RFC-NF-NM-50 | Low loss RF Cable, Cable length 0.5m, N Female to N Male connector | 0.5 m |
| RFC-NF-NM-500 | Low loss RF Cable, Cable length 5m, N Female to N Male connector | 5 m |
| RFC-NF-NM-1000 | Low loss RF Cable, Cable length 10m, N Female to N Male connector | 10 m |
| RFC-NM-NM-150 | Low loss RF Cable, Cable length 1.5m, N Male to N Male connector | 1.5m |



| RF Surge Protector | |
|--------------------|---|
| Model Name | Description |
| RFP-NF-NM-WAG | High-power RF Surge Protector, 0~6GHz, N Female to N Male connector |



| RF Adapter | |
|----------------|--|
| Model Name | Description |
| RFC-SF-SM-OR | RF Right Angle Adapter, SMA Female to SMA Male connector |
| RFC-SFR-SM-0 | RF Adapter, RP SMA Female to SMA Male connector |
| RFC-SFR-SMR-OR | RF Right Angle Adapter, RP-SMA Female to RP-SMA Male connector |
| RFC-SM-NF-0 | RF Adapter, SMA Male to N Female connector |
| RFC-SMR-NF-0 | RF Adapter, RP-SMA Male to N Female connector |
| RFC-SM-NM-0 | RF Adapter, SMA Male to N type Male connector |

Product Selection Guide



WLAN RF Antenna (Outdoor Panel Type)

| Model Name | Description |
|----------------|---|
| RFA-P14-NF2-WA | Outdoor High-gain Panel Antenna, MIMO,5GHz, 14dbi max., N Female connector x2 |
| RFA-P12-NF-WG | Outdoor High-gain Panel Antenna, 2.4GHz, 12dbi max., N Female connector |
| RFA-P14-NF-WA | Outdoor High-gain Panel Antenna, 5GHz, 14dbi max., N Female connector |
| RFA-P13-NF2-WG | Outdoor High-gain Panel Antenna, 2.4GHz, 13dBi max, N-Female connector X2 |



WLAN RF Antenna (Omni - Directional)

| Model Name | Description |
|---------------|--|
| RFA-O7-NM-WG | Omni-directional High-gain Dipole Antenna, 2.4GHz, 7dBi max, N Male connector |
| RFA-O9-NM-WG | Omni-directional High-gain Dipole Antenna, 2.4GHz, 9dBi max, N Male connector |
| RFA-O5-NM-WA | Omni-directional High-gain Dipole Antenna, 5GHz, 5dBi max, N Male connector |
| RFA-O10-NM-WA | Omni-directional High-gain Dipole Antenna, 5GHz, 10dBi max, N Male connector |
| RFA-O12-NF-WA | Omni-directional High-gain Dipole Antenna, 5GHz, 12dBi max, N Female connector with wall-mount bracket |



RF Antenna (Dome Type)

| Model Name | Description |
|------------------|---|
| RFA-D9-SM-WG | WLAN RF Dome Antenna 2.4GHz, 9dbi max, 2.4GHz, SMA Male connector |
| RFA-D28-SM-AG-3M | GPS Active Antenna,1575 MHz, 28dBi max, Magnetic with 3m SMA Male cable |



RF Antenna (Roof Type)

| Model Name | Description |
|----------------------|---|
| RFA-O5-SM-W4G | Rooftop/Outdoor High Performance Omni Antenna for 3G/4G applications 5dBi max, SMA Male connector |
| RFA-O4-SMR-WG | Rooftop/Outdoor High Performance Omni Antenna, 2.4GHz, 4dBi max, RP-SMA Male connector |
| RFA-O5-SMR-WA | Rooftop/Outdoor High Performance Omni Antenna, 5 GHz, 5dBi max, RP-SMA Male connector |
| RFA-O4-SMR2-WG | Rooftop/Outdoor High Performance Omni Antenna, MIMO 2.4GHz, 4dBi max, RP-SMA Male connector x2 |
| RFA-O5-SMR2-WA | Rooftop/Outdoor High Performance Omni Antenna, MIMO 5GHz, 5dBi max.,RP-SMA Male connector x2 |
| RFA-O5-NF3-W3GGS-028 | Rooftop/Outdoor High Performance Omni Antenna , 3G/4G, GPS/GLONASS applications, 5dBi max, N Female connector |

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Specifications

| Characteristics | Model name | | | | |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | SFP100-MM/-I | SFP100-SS30/-I | SFP100-SS60/-I | SFP100-SS100/-I | * SFP100-SS120/-I |
| Fiber mode | multi-mode | single-mode | single-mode | single-mode | single-mode |
| Typical Distance | 2 km | 30 km | 60 km | 100 km | 120 km |
| Operating Temperature | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) |
| Wavelength | 1310 nm | 1310 nm | 1310 nm | 1550 nm | 1550 nm |
| Optical Output Power 9/125 μm fiber (Max. TX) | - | -8 dBm | 0 dBm | 0 dBm | 5 dBm |
| Optical Output Power 9/125 μm fiber (Min. TX) | - | -15 dBm | -5 dBm | -5 dBm | 0 dBm |
| Optical Output Power 62.5/125 μm fiber (Max. TX) | -14 dBm | - | - | - | - |
| Optical Output Power 62.5/125 μm fiber (Min. TX) | -20 dBm | - | - | - | - |
| Optical Output Power 50/125 μm fiber (Max. TX) | -14 dBm | - | - | - | - |
| Optical Output Power 50/125 μm fiber (Min. TX) | -23.5 dBm | - | - | - | - |
| Optical Input Power-minimum (Sensitivity) | -31 dBm | -34 dBm | -35 dBm | -35 dBm | -35 dBm |
| Optical Input Power-maximum (Saturation) | -8 dBm | 0 dBm | 0 dBm | 0 dBm | 0 dBm |
| Link Budget | 7.5 dB | 19 dB | 30 dB | 30 dB | 35 dB |

* If two SFP transceivers are connected to each other in a short distance and the received optical power is greater than the listed specification of the received SFP transceiver, please add an optical attenuator (Please refer to FAT-LC series accessories) to avoid any possible damages.

Ordering Information

| Model Name | Description |
|----------------|--|
| SFP100-MM | 100Mbps SFP optical transceiver, multi-mode / 2km, 1310nm, 0 ~ 70°C |
| SFP100-MM-I | 100Mbps SFP optical transceiver, multi-mode / 2km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP100-SS30 | 100Mbps SFP optical transceiver, single-mode / 30km, 1310nm, 0 ~ 70°C |
| SFP100-SS30-I | 100Mbps SFP optical transceiver, single-mode / 30km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP100-SS60 | 100Mbps SFP optical transceiver, single-mode / 60km, 1310nm, 0 ~ 70°C |
| SFP100-SS60-I | 100Mbps SFP optical transceiver, single-mode / 60km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP100-SS100 | 100Mbps SFP optical transceiver, single-mode / 100km, 1550nm, 0 ~ 70°C |
| SFP100-SS100-I | 100Mbps SFP optical transceiver, single-mode / 100km, 1550nm, industrial grade, -40 ~ 85°C |
| SFP100-SS120 | 100Mbps SFP optical transceiver, single-mode / 120km, 1550nm, 0 ~ 70°C |
| SFP100-SS120-I | 100Mbps SFP optical transceiver, single-mode / 120km, 1550nm, industrial grade, -40 ~ 85°C |

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Specifications

| Characteristics | Model Name | | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | SFP100B3-MM/-I | SFP100B5-MM/-I | SFP100B3-SS20/-I | SFP100B5-SS20/-I | SFP100B3-SS40/-I | SFP100B5-SS40/-I | SFP100B3-SS60/-I | SFP100B5-SS60/-I |
| Fiber mode | Multi-mode | Multi-mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode |
| Typical Distance | 2 km | 2 km | 20 km | 20 km | 40 km | 40 km | 60 km | 60 km |
| Operating Temperature | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) |
| Wavelength | TX : 1310 nm RX : 1550 nm | TX : 1550 nm RX : 1310 nm | TX : 1310 nm RX : 1550 nm | TX : 1550 nm RX : 1310 nm | TX : 1310 nm RX : 1550 nm | TX : 1550 nm RX : 1310 nm | TX : 1310 nm RX : 1550 nm | TX : 1550 nm RX : 1310 nm |
| Optical Output Power 9/125 μm fiber (Max. TX) | 0 dBm | 0 dBm | -8 dBm | -8 dBm | 0 dBm | 0 dBm | 0 dBm | 0 dBm |
| Optical Output Power 9/125 μm fiber (Min. TX) | -10 dBm | -10 dBm | -14 dBm | -14 dBm | -8 dBm | -8 dBm | -5 dBm | -5 dBm |
| Optical Input Power-minimum (Sensitivity) | -28 dBm | -28 dBm | -32 dBm | -32 dBm | -34 dBm | -34 dBm | -34 dBm | -34 dBm |
| Optical Input Power-maximum (Saturation) | 0 dBm | 0 dBm | 0 dBm | 0 dBm | 0 dBm | 0 dBm | 0 dBm | 0 dBm |
| Link Budget | 18 dB | | 18 dB | | 26 dB | | 29 dB | |

Ordering Information

| Model Name | Description |
|-----------------|--|
| SFP100B3-MM | 100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1310nm / RX1550nm, 0 ~ 70°C |
| SFP100B3-MM-I | 100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1310nm / RX1550nm, industrial grade, -40 ~ 85°C |
| SFP100B5-MM | 100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1550nm / RX1310nm, 0 ~ 70°C |
| SFP100B5-MM-I | 100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1550nm / RX1310nm, industrial grade, -40 ~ 85°C |
| SFP100B3-SS20 | 100Mbps SFP optical transceiver, single-mode BIDI / 20km, TX1310nm, RX1550nm, 0 ~ 70°C |
| SFP100B3-SS20-I | 100Mbps SFP optical transceiver, single-mode BIDI / 20km, TX1310nm, RX1550nm, industrial grade, -40 ~ 85°C |
| SFP100B5-SS20 | 100Mbps SFP optical transceiver, single-mode BIDI / 20km, TX1550nm, RX1310nm, 0 ~ 70°C |
| SFP100B5-SS20-I | 100Mbps SFP optical transceiver, single-mode BIDI / 20km, TX1550nm, RX1310nm, industrial grade, -40 ~ 85°C |
| SFP100B3-SS40 | 100Mbps SFP optical transceiver, single-mode BIDI / 40km, TX1310nm, RX1550nm, 0 ~ 70°C |
| SFP100B3-SS40-I | 100Mbps SFP optical transceiver, single-mode BIDI / 40km, TX1310nm, RX1550nm, industrial grade, -40 ~ 85°C |
| SFP100B5-SS40 | 100Mbps SFP optical transceiver, single-mode BIDI / 40km, TX1550nm, RX1310nm, 0 ~ 70°C |
| SFP100B5-SS40-I | 100Mbps SFP optical transceiver, single-mode BIDI / 40km, TX1550nm, RX1310nm, industrial grade, -40 ~ 85°C |
| SFP100B3-SS60 | 100Mbps SFP optical transceiver, single-mode BIDI / 60km, TX1310nm, RX1550nm, 0 ~ 70°C |
| SFP100B3-SS60-I | 100Mbps SFP optical transceiver, single-mode BIDI / 60km, TX1310nm, RX1550nm, industrial grade, -40 ~ 85°C |
| SFP100B5-SS60 | 100Mbps SFP optical transceiver, single-mode BIDI / 60km, TX1550nm, RX1310nm, 0 ~ 70°C |
| SFP100B5-SS60-I | 100Mbps SFP optical transceiver, single-mode BIDI / 60km, TX1550nm, RX1310nm, industrial grade, -40 ~ 85°C |

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Accessories

Gigabit Ethernet SFP modules



Specifications

| Characteristics | Model Name | | | | | | | | | |
|--|-------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | SFP1G-SX/-I | SFP1G-MLX/-I | SFP1G-LX10/-I | *SFP1G-LX20/-I | *SFP1G-LHX30/-I | *SFP1G-LHX40/-I | *SFP1G-XD50/-I | *SFP1G-ZX70/-I | *SFP1G-ZX80/-I | *SFP1G-EZX120/-I |
| Fiber mode | multi-mode | multi-mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode |
| Typical Distance | 550 m | 62.5/125 : 2km 50/125 : 1km | 10 km | 20 km | 30 km | 40 km | 50 km | 70 km | 80 km | 120 km |
| Operating Temperature | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) |
| Wavelength | 850 nm | 1310 nm | 1310 nm | 1310 nm | 1310 nm | 1310 nm | 1550 nm | 1550 nm | 1550 nm | 1550 nm |
| Optical Output Power 9/125 μm fiber (Max. TX) | - | - | -3 dBm | -2 dBm | 1 dBm | 1 dBm | 1 dBm | 5 dBm | 5 dBm | 5 dBm |
| Optical Output Power 9/125 μm fiber (Min. TX) | - | - | -9.5 dBm | -8 dBm | -4 dBm | -4 dBm | -4 dBm | 0 dBm | 0 dBm | 0 dBm |
| Optical Output Power 62.5/125 μm fiber (Max. TX) | -4 dBm | -1 dBm | - | - | - | - | - | - | - | - |
| Optical Output Power 62.5/125 μm fiber (Min. TX) | -9.5 dBm | -9 dBm | - | - | - | - | - | - | - | - |
| Optical Output Power 50/125 μm fiber (Max. TX) | -4 dBm | -1 dBm | - | - | - | - | - | - | - | - |
| Optical Output Power 50/125 μm fiber (Min. TX) | -9.5 dBm | -9 dBm | - | - | - | - | - | - | - | - |
| Optical Input Power-minimum (Sensitivity) | -18 dBm | -19 dBm | -20 dBm | -23 dBm | -24 dBm | -24 dBm | -24 dBm | -24 dBm | -24 dBm | -32 dBm |
| Optical Input Power-maximum(Saturation) | 0 dBm | -1 dBm | -3 dBm | -3 dBm | -3 dBm | -3 dBm | -3 dBm | -3 dBm | -3 dBm | -8 dBm |
| Link Budget | 8.5 dB | 10 dB | 10.5 dB | 15 dB | 20 dB | 20 dB | 20 dB | 24 dB | 24 dB | 32 dB |

* If two SFP transceivers are connected to each other in a short distance and the received optical power is greater than the listed specification of the received SFP transceiver, please add an optical attenuator(Please refer to FAT-LC series accessories) to avoid any possible damages.

Ordering Information

| Model Name | Description |
|----------------|--|
| SFP1G-SX | 1Gbps SFP optical transceiver, multi-mode / 550m, 850nm, 0 ~ 70°C |
| SFP1G-SX-I | 1Gbps SFP optical transceiver, multi-mode / 550m, 850nm, industrial grade, -40 ~ 85°C |
| SFP1G-MLX | 1Gbps SFP optical transceiver, multi-mode / 2km, 1310nm, 0 ~ 70°C |
| SFP1G-MLX-I | 1Gbps SFP optical transceiver, multi-mode / 2km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP1G-LX10 | 1Gbps SFP optical transceiver, single-mode / 10km, 1310nm, 0 ~ 70°C |
| SFP1G-LX10-I | 1Gbps SFP optical transceiver, single-mode / 10km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP1G-LX20 | 1Gbps SFP optical transceiver, single-mode / 20km, 1310nm, 0 ~ 70°C |
| SFP1G-LX20-I | 1Gbps SFP optical transceiver, single-mode / 20km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP1G-LHX30 | 1Gbps SFP optical transceiver, single-mode / 30km, 1310nm, 0 ~ 70°C |
| SFP1G-LHX30-I | 1Gbps SFP optical transceiver, single-mode / 30km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP1G-LHX40 | 1Gbps SFP optical transceiver, single-mode / 40km, 1310nm, 0 ~ 70°C |
| SFP1G-LHX40-I | 1Gbps SFP optical transceiver, single-mode / 40km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP1G-XD50 | 1Gbps SFP optical transceiver, single-mode / 50km, 1550nm, 0 ~ 70°C |
| SFP1G-XD50-I | 1Gbps SFP optical transceiver, single-mode / 50km, 1550nm, industrial grade, -40 ~ 85°C |
| SFP1G-ZX70 | 1Gbps SFP optical transceiver, single-mode / 70km, 1550nm, 0 ~ 70°C |
| SFP1G-ZX70-I | 1Gbps SFP optical transceiver, single-mode / 70km, 1550nm, industrial grade, -40 ~ 85°C |
| SFP1G-ZX80 | 1Gbps SFP optical transceiver, single-mode / 80km, 1550nm, 0 ~ 70°C |
| SFP1G-ZX80-I | 1Gbps SFP optical transceiver, single-mode / 80km, 1550nm, industrial grade, -40 ~ 85°C |
| SFP1G-EZX120 | 1Gbps SFP optical transceiver, single-mode / 120km, 1550nm, 0 ~ 70°C |
| SFP1G-EZX120-I | 1Gbps SFP optical transceiver, single-mode / 120km, 1550nm, industrial grade, -40 ~ 85°C |

Product Selection Guide

Accessories

Gigabit Ethernet BIDI-SFP modules



Specifications

| Characteristics | Model Name | | | | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | SFP1GB3-LX10/-I | SFP1GB5-LX10/-I | SFP1GB3-LX20/-I | SFP1GB5-LX20/-I | * SFP1GB3-LX40/-I | * SFP1GB5-LX40/-I | * SFP1GB3-LX60/-I | * SFP1GB5-LX60/-I | * SFP1GB4-LX80/-I | * SFP1GB5-LX80/-I |
| Fiber mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode | single-mode |
| Typical Distance | 10 km | 10 km | 20 km | 20 km | 40 km | 40 km | 60 km | 60 km | 80 km | 80 km |
| Operating Temperature | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) |
| Wavelength | TX : 1310 nm RX : 1550 nm | TX : 1550 nm RX : 1310 nm | TX : 1310 nm RX : 1550 nm | TX : 1550 nm RX : 1310 nm | TX : 1310 nm RX : 1550 nm | TX : 1550 nm RX : 1310 nm | TX : 1310 nm RX : 1550 nm | TX : 1550 nm RX : 1310 nm | TX : 1490 nm RX : 1550 nm | TX : 1550 nm RX : 1490 nm |
| Optical Output Power 9/125 μm fiber (Max. TX) | -3 dBm | -3 dBm | -2 dBm | -2 dBm | 2 dBm | 2 dBm | 5 dBm | 4 dBm | 4 dBm | 4 dBm |
| Optical Output Power 9/125 μm fiber (Min. TX) | -9 dBm | -9 dBm | -8 dBm | -8 dBm | -3 dBm | -3 dBm | 0 dBm | -2 dBm | -2 dBm | -2 dBm |
| Optical Input Power-minimum (Sensitivity) | -21 dBm | -21 dBm | -23 dBm | -23 dBm | -23 dBm | -23 dBm | -24 dBm | -25 dBm | -25 dBm | -25 dBm |
| Optical Input Power-maximum (Saturation) | -1 dBm | -1 dBm | -1 dBm | -1 dBm | -1 dBm | -1 dBm | -1 dBm | -1 dBm | -3 dBm | -3 dBm |
| Link Budget | 12 dB | | 15 dB | | 20 dB | | 22 dB | | 23 dB | |

* If two SFP transceivers are connected to each other in a short distance and the received optical power is greater than the listed specification of the received SFP transceiver, please add an optical attenuator (Please refer to FAT-LC series accessories) to avoid any possible damages.

Ordering Information

| Model Name | Description |
|----------------|--|
| SFP1GB3-LX10 | 1Gbps SFP optical transceiver, single-mode BIDI / 10km, TX1310nm, RX1550nm, 0 ~ 70°C |
| SFP1GB3-LX10-I | 1Gbps SFP optical transceiver, single-mode BIDI / 10km, TX1310nm, RX1550nm, industrial grade, -40 ~ 85°C |
| SFP1GB5-LX10 | 1Gbps SFP optical transceiver, single-mode BIDI / 10km, TX1550nm, RX1310nm, 0 ~ 70°C |
| SFP1GB5-LX10-I | 1Gbps SFP optical transceiver, single-mode BIDI / 10km, TX1550nm, RX1310nm, industrial grade, -40 ~ 85°C |
| SFP1GB3-LX20 | 1Gbps SFP optical transceiver, single-mode BIDI / 20km, TX1310nm, RX1550nm, 0 ~ 70°C |
| SFP1GB3-LX20-I | 1Gbps SFP optical transceiver, single-mode BIDI / 20km, TX1310nm, RX1550nm, industrial grade, -40 ~ 85°C |
| SFP1GB5-LX20 | 1Gbps SFP optical transceiver, single-mode BIDI / 20km, TX1550nm, RX1310nm, 0 ~ 70°C |
| SFP1GB5-LX20-I | 1Gbps SFP optical transceiver, single-mode BIDI / 20km, TX1550nm, RX1310nm, industrial grade, -40 ~ 85°C |
| SFP1GB3-LX40 | 1Gbps SFP optical transceiver, single-mode BIDI / 40km, TX1310nm, RX1550nm, 0 ~ 70°C |
| SFP1GB3-LX40-I | 1Gbps SFP optical transceiver, single-mode BIDI / 40km, TX1310nm, RX1550nm, industrial grade, -40 ~ 85°C |
| SFP1GB5-LX40 | 1Gbps SFP optical transceiver, single-mode BIDI / 40km, TX1550nm, RX1310nm, 0 ~ 70°C |
| SFP1GB5-LX40-I | 1Gbps SFP optical transceiver, single-mode BIDI / 40km, TX1550nm, RX1310nm, industrial grade, -40 ~ 85°C |
| SFP1GB3-LX60 | 1Gbps SFP optical transceiver, single-mode BIDI / 60km, TX1310nm, RX1550nm, 0 ~ 70°C |
| SFP1GB3-LX60-I | 1Gbps SFP optical transceiver, single-mode BIDI / 60km, TX1310nm, RX1550nm, industrial grade, -40 ~ 85°C |
| SFP1GB5-LX60 | 1Gbps SFP optical transceiver, single-mode BIDI / 60km, TX1550nm, RX1310nm, 0 ~ 70°C |
| SFP1GB5-LX60-I | 1Gbps SFP optical transceiver, single-mode BIDI / 60km, TX1550nm, RX1310nm, industrial grade, -40 ~ 85°C |
| SFP1GB4-LX80 | 1Gbps SFP optical transceiver, single-mode BIDI / 80km, 1490nm, 1550nm, 0 ~ 70°C |
| SFP1GB4-LX80-I | 1Gbps SFP optical transceiver, single-mode BIDI / 80km, 1490nm, 1550nm, industrial grade, -40 ~ 85°C |
| SFP1GB5-LX80 | 1Gbps SFP optical transceiver, single-mode BIDI / 80km, 1550nm, 1490nm, 0 ~ 70°C |
| SFP1GB5-LX80-I | 1Gbps SFP optical transceiver, single-mode BIDI / 80km, 1550nm, 1490nm, industrial grade, -40 ~ 85°C |

Product Selection Guide

Accessories

10G Ethernet SFP+ modules with Diagnostic Monitoring



Specifications

| Characteristics | Model Name | | | | |
|--|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | SFP10G-MM/-I | SFP10G-LR10/-I | SFP10G-LR20/-I | *SFP10G-ER40/-I | *SFP10G-ZR80/-I |
| Fiber mode | multi-mode | single-mode | single-mode | single-mode | single-mode |
| Typical Distance | 62.5/125um : 33m 50/125um(OM2) : 82m 50/125um(OM3) : 300m | 10 km | 20 km | 40 km | 80 km |
| Operating Temperature | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) | 0~70°C -40~85°C (-I model) |
| Wavelength | 850 nm | 1310 nm | 1310 nm | 1550 nm | 1550 nm |
| Optical Output Power 9/125 μm fiber (Max. TX) | - | 0.5 dBm | 0.5 dBm | 4 dBm | 4 dBm |
| Optical Output Power 9/125 μm fiber (Min. TX) | - | -6 dBm | -4 dBm | -4.7 dBm | 0 dBm |
| Optical Output Power 62.5/125 μm fiber (Max. TX) | -1 dBm | - | - | - | - |
| Optical Output Power 62.5/125 μm fiber (Min. TX) | -6.5 dBm | - | - | - | - |
| Optical Output Power 50/125 μm fiber (Max. TX) | -1 dBm | - | - | - | - |
| Optical Output Power 50/125 μm fiber (Min. TX) | -6.5 dBm | - | - | - | - |
| Optical Input Power-minimum (Sensitivity) | -9.9 dBm | -14.4 dBm | -15 dBm | -15.8 dBm | -23 dBm |
| Optical Input Power-maximum (Saturation) | -1 dBm | 0.5 dBm | 0.5 dBm | -1 dBm | -7 dBm |
| Link Budget | 3.4 dB | 8.4 dB | 11 dB | 11.1 dB | 23 dB |

⚠ If two SFP transceivers are connected to each other in a short distance and the received optical power is greater than the listed specification of the received SFP transceiver, please add an optical attenuator (Please refer to FAT-LC series accessories) to avoid any possible damages.

Ordering Information

| Model Name | Description |
|---------------|---|
| SFP10G-MM | 10Gbps SFP+ optical transceiver, multi-mode / 300m, 850nm, 0 ~ 70°C |
| SFP10G-MM-I | 10Gbps SFP+ optical transceiver, multi-mode / 300m, 850nm, industrial grade, -40 ~ 85°C |
| SFP10G-LR10 | 10Gbps SFP+ optical transceiver, single-mode / 10km, 1310nm, 0 ~ 70°C |
| SFP10G-LR10-I | 10Gbps SFP+ optical transceiver, single-mode / 10km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP10G-LR20 | 10Gbps SFP+ optical transceiver, single-mode / 20km, 1310nm, 0 ~ 70°C |
| SFP10G-LR20-I | 10Gbps SFP+ optical transceiver, single-mode / 20km, 1310nm, industrial grade, -40 ~ 85°C |
| SFP10G-ER40 | 10Gbps SFP+ optical transceiver, multi-mode / 40km, 1550nm, 0 ~ 70°C |
| SFP10G-ER40-I | 10Gbps SFP+ optical transceiver, multi-mode / 40km, 1550nm, industrial grade, -40 ~ 85°C |
| SFP10G-ZR80 | 10Gbps SFP+ optical transceiver, single-mode / 80km, 1550nm, 0 ~ 70°C |
| SFP10G-ZR80-I | 10Gbps SFP+ optical transceiver, single-mode / 80km, 1550nm, industrial grade, -40 ~ 85°C |

Product Selection Guide

Accessories

Gigabit Ethernet SFP-RJ45 modules



Specifications

| Characteristics | Model Name | | |
|-----------------------|--------------------|--------------------|-------------------|
| | SFP1GRJ | SFP1GRJ-I | SFP10GRJ |
| Operating Temperature | 0~70°C | -40~85°C | 0~70°C |
| RJ45 Operation mode | 1000Base-T* | 1000Base-T* | 10GBase-T* |
| SFP Interface | SERDES, 1000Base-X | SERDES, 1000Base-X | SERDES, 10GBase-X |

- * 1. Please notice 10/100Base-T(X) modes are not supported.
2. Link length up to 100m with Cat5 UTP cable or better.
- * 1. Please notice 10/100/1000Base-T modes are not supported.
2. Link length up to 30m with Cat6a/7 cable.

Ordering Information

| Model Name | Description |
|------------|--|
| SFP1GRJ | 1Gbps SFP to 1000 Base-T transceiver, 0 ~ 70°C |
| SFP1GRJ-I | 1Gbps SFP to 1000 Base-T transceiver, industrial grade, -40 ~ 85°C |
| SFP10GRJ | 10Gbps SFP+ to 10G - Base-T transceiver, 0 ~ 70°C |



10G Ethernet SFP+ Copper Cable

Specifications

| Characteristics | Model Name | | | |
|---------------------------|------------|-------------|-------------|-------------|
| | SFPC10G-50 | SFPC10G-100 | SFPC10G-300 | SFPC10G-500 |
| Max.Speed | 10 Gbps | 10 Gbps | 10 Gbps | 10 Gbps |
| Wire Gauge | 30 AWG | 30 AWG | 30 AWG | 24 AWG |
| Low Smoke Zero Halogen | • | • | • | • |
| Cable length | 0.5 m | 1 m | 3 m | 5 m |
| Operating temperature | -40 ~ 85°C | -40 ~ 85°C | -40 ~ 85°C | -40 ~ 85°C |

Ordering Information

| Model Name | Description | Cable length |
|-------------|---|--------------|
| SFPC10G-50 | 10Gbps SFP+ copper cable 30AWG, 0.5 m, -40 ~ 85°C | 0.5 m |
| SFPC10G-100 | 10Gbps SFP+ copper cable 30AWG, 1 m, -40 ~ 85°C | 1 m |
| SFPC10G-300 | 10Gbps SFP+ copper cable 30AWG, 3 m, -40 ~ 85°C | 3 m |
| SFPC10G-500 | 10Gbps SFP+ copper cable 24AWG, 5 m, -40 ~ 85°C | 5 m |

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