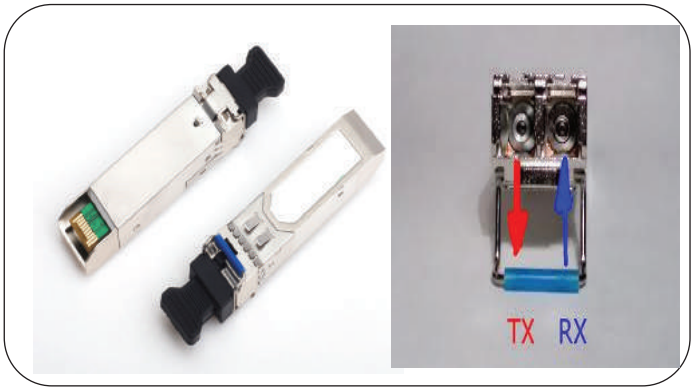
## Industrial Rated SFP Interfaces




### Features:

- Support for protocols from 100 Mbps to 4.25 Gbps
- Gigabit Ethernet, Fiber Channel, and 4-Giabit Fiber Channel
- Digital Diagnostic SFF-8472 compliant
- SFP MSA SFF-8074i compliance
- GR 253/STM G.957 compliance
- Bellcore GR-468 compliance
- Low jitter
- Hot plug-in support
- Low EMI metal enclosure
- Class 1 laser
- RoHS compliance, NEMA TS-2,
- 21 CFR 1040.10 & 1040.11 compliance "UL / "TUV / "CSA Laboratory Certifications

### Overview

**Small Form-Factor Pluggable (SFP) interfaces from DYMEC provide flexible, and secure high speed optical links in a small industry standard package. They deliver the deployment options and inventory control that network administrators demand for growing industrial networks. Designed to operate in extreme temperatures and harsh environments.**

**SFPs are designed to Multi-Source Agreement (MSA) standards to ensure network equipment compatibility. They are a perfect addition to the DYMEC line of Secure Optical Links® pluggable media modules and chassis, and they compliment the DYMEC line of traffic products, Ethernet routers and Layer 2 Ethernet switches. Secure, safe and reliable communication links for industrial, SCADA networks. Temperature hardened, and Ruggedized. Buy the best for your network. Cisco Compatible & Tested.**

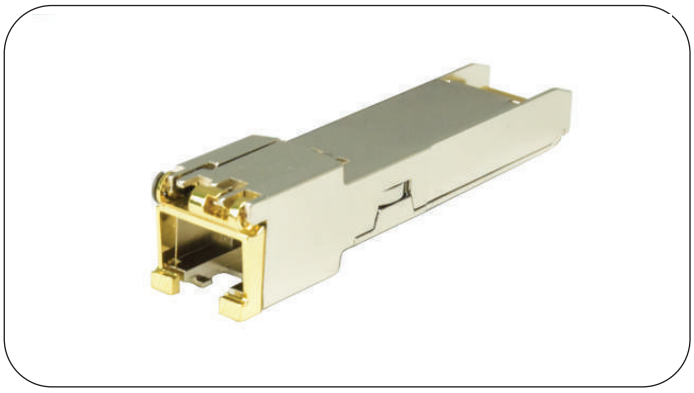
**Visit the DYMEC website at: DYMEC.com or contact your nearest authorized DYMEC dealer for more information.**

**Ordering Information - GIGABIT Industrial SFP's.....550Meters ~ 80KM & Copper RJ45**

| DYMEC Part Number | Description | Connector Type | Wavelength (nm) | Output Power (dBm) | | Min. Reciever Sensitivity (dBm) | LASER | Current Consumption | BER | Data Rate | Supply Voltage (V) | Oper. Temp. Range (°C) | Digital Diagnostics | Distance Range (km) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Min | Max | | | | | | | | | |
| KY-MGSFP-550M | SFP Multi-mode | LC Dual | 850nm | -3 | -9 | <-18 | VCSEL | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -20~+85 | Yes | <550M |
| KY-MGSFP-LR2KM | SFP Multi-mode | LC Dual | 1310nm | -3 | -9 | <-18 | VCSEL | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | No | <2KM |
| KY-SGSFP-LX10K | SFP Single-mode | LC Dual | 1310nm | -3 | -9 | <-18 | FP LD | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | Yes | <10KM |
| KY-SGSFP-LX20K | SFP Single-mode | LC Dual | 1310nm | 0 | -5 | <-18 | FP LD | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | Yes | <20KM |
| KY-SGSFP-LX40K | SFP Single-mode | LC Dual | 1310nm | +2 | -3 | <-18 | DFB LD | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | Yes | <40KM |
| KY-SGSFP-LX80K | SFP Single-mode | LC Dual | 1550nm | +5 | 0 | <-18 | DFB LD | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | Yes | <80KM |
| KY-CGSFP-TXRJ | SFP Copper-RJ | RJ-45 | N/A | N/A | N/A | N/A | SGMII | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | No | <100M |

* DL - Dispersion Limited
** Dispersion penalty may apply

## Industrial Rated SFP Interfaces



**KY-VDSL2SFP - Range to 3000 Meters**

### Features:

- Support for protocols from 100 Mbps to 4.25 Gbps
- Gigabit Ethernet, Fiber Channel, and 4-Giabit Fiber Channel
- Digital Diagnostic SFF-8472 compliant
- SFP MSA SFF-8074i compliance
- GR 253/STM G.957 compliance
- Bellcore GR-468 compliance
- Low jitter
- Hot plug-in support
- Low EMI metal enclosure
- Class 1 laser
- RoHS compliance, NEMA TS-2,
- 21 CFR 1040.10 & 1040.11 compliance "UL / "TUV / "CSA Laboratory Certifications

### Overview

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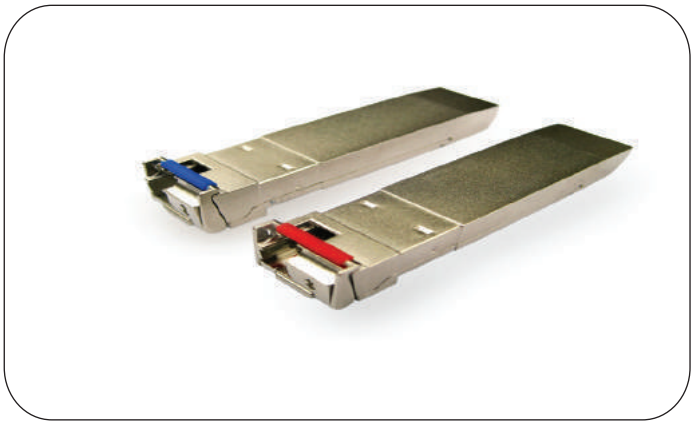
**Visit the DYMEC website at: DYMEC.com or contact your nearest authorized DYMEC dealer for more information.**

### Ordering Information - Industrial SFP's

| DYMEC Part Number | Description | Connector Type | Wavelength (nm) | Output Power (dBm) | | Min. Reciever Sensitivity (dBm) | LASER | Current Consumption | BER | Data Rate | Supply Voltage (V) | Oper. Temp. Range (°C) | Digital Diagnostics | Distance Range (km) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Min | Max | | | | | | | | | |
| KY-SFaSFP-2KM GARRETTCOM | SFP Single-mode | LC Dual | 1300nm | -3 | -9 | <-18 | FP LD | 300ma | $1.00E^{-15}$ | 1.55 Mbps | 3.3V | -40~+85 | No | <2KM |
| KY-SFaSFP-550M | SFP Single-mode | LC Dual | 850nm | -3 | -9 | <-18 | FP LD | 300ma | $1.00E^{-15}$ | 1.55 Mbps | 3.3V | -20~+85 | No | <550M |
| KY-SFaSFP-10KM | SFP Single-mode | LC Dual | 1310nm | -3 | -9 | <-18 | FP LD | 300ma | $1.00E^{-15}$ | 1.55 Mbps | 3.3V | -40~+85 | No | <10KM |
| KY-GLC-LX-SM-RGD Cisco | SFP Single-mode | LC Dual | 1310nm | 0 | -5 | <-18 | FP LD | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | Yes | <10KM |
| KY-BiDiSFP-LX10K | SFP Single-mode | LC Single | 1310nm | +2 | -3 | <-18 | DFB LD | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | Yes | <10KM |
| KY-BiDiSFP-LX20K | SFP Single-mode | LC Single | 1550nm | +5 | 0 | <-18 | DFB LD | 300ma | $1.00E^{-15}$ | 1.25 Gbps | 3.3V | -40~+85 | Yes | <20KM |
| KY-VDSL2SFP | SFP VDSL2 | RJ-45 CAT 5-6 | N/A | N/A | N/A | N/A | Serdes | 300ma | $1.00E^{-15}$ | 100 Mbps | 3.3V | -40~+85 | No | <3000M |

* DL - Dispersion Limited
** Dispersion penalty may apply

# Industrial Rated SFP+ (10 Gigabit) Industrial Interfaces



KY-SFP+ (10 Gigabit) - Range 300 Meters to 120KM

## Features:

- Support for protocols from 100 Mbps to 4.25 Gbps
- Gigabit Ethernet, Fiber Channel, and 4-Giabit Fiber Channel
- Digital Diagnostic SFF-8472 compliant
- SFP MSA SFF-8074i compliance
- GR 253/STM G.957 compliance
- Bellcore GR-468 compliance
- Low jitter
- Hot plug-in support
- Low EMI metal enclosure
- Class 1 laser
- RoHS compliance, NEMA TS-2,
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## Overview

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**Visit the DYMEC website at: DYMEC.com or contact your nearest authorized DYMEC dealer for more information.**

## Ordering Information - Industrial SFP's

| DYMEC Part Number | Description | Connector Type | Wavelength (nm) | Output Power (dBm) | | Min. Reciever Sensitivity (dBm) | LASER | Current Consumption | BER | Data Rate | Supply Voltage (V) | Oper. Temp. Range (°C) | Digital Diagnostics | Distance Range (km) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Min | Max | | | | | | | | | |
| KY-SFP+-300M | SFP+ Multi-mode | LC Dual | 850nm | -1 | 2 | <-16 | VCSEL | 300ma | 1.00E$^{-15}$ | 10.3125Gbps | 3.3V | -40~+85 | Yes | <300M |
| KY-SFP+-220M | SFP Single-mode | LC Dual | 1310nm | -1 | 2 | <-16 | DFB | 300ma | 1.00E$^{-15}$ | 10.3125Gbps | 3.3V | -40~+85 | Yes | <220M |
| KY-SFP+-10KM | SFP Single-mode | LC Dual | 1310nm | -1 | 2 | <-16 | DFB | 300ma | 1.00E$^{-15}$ | 10.3125Gbps | 3.3V | -40~+85 | Yes | <10KM |
| KY-SFP+-20KM | SFP Single-mode | LC Dual | 1310nm | -1 | 2 | <-16 | DFB | 300ma | 1.00E$^{-15}$ | 10.3125Gbps | 3.3V | -40~+85 | Yes | <20KM |
| KY-SFP+-40KM | SFP Single-mode | LC Dual | 1550nm | -1 | 2 | <-16 | DFB | 300ma | 1.00E$^{-15}$ | 10.3125Gbps | 3.3V | -40~+85 | Yes | <40KM |
| KY-SFP+-60KM | SFP Single-mode | LC Dual | 1550nm | -1 | 2 | <-16 | DFB | 300ma | 1.00E$^{-15}$ | 10.3125Gbps | 3.3V | -40~+85 | Yes | <60KM |
| KY-SFP+-80KM | SFP Single-mode | LC Dual | 1550nm | -1 | 2 | <-16 | DFB | 300ma | 1.00E$^{-15}$ | 10.3125Gbps | 3.3V | -40~+85 | Yes | <80KM |

* DL - Dispersion Limited
** Disperion Factors Change between 50 and 62.5 micron Fiber
DDMI - SFF-8472 Specification