



Datasheet

OC-xx/STM-xx SFP Interfaces



Features

- Solutions for OC-3 to OC-48, STM-1 to STM-16
- Digital Diagnostic SFF-8472 compliance
- SFP MSA SFF-8074i compliance
- Bellcore GR-468 compliant
- Low jitter of < 200 ps
- Bit Error Rate (BER) of < 10⁻¹⁰
- Hot plug-in support
- Low EMI metal enclosure
- Class 1 laser
- RoHS compliance
- 21 CFR 1040.10 and 1040.11 compliance (may carry "UL", "TUV", or "CSA" laboratory certifications)

Overview

Small Form-Factor Pluggable (SFP) interfaces from MRV Communications provide flexible high speed links in a small industry standard package. They deliver the deployment options and inventory control that network administrators demand for growing networks.

SFPs are designed to Multi-Source Agreement (MSA) standards to ensure network equipment compatibility. They are a perfect addition to the MRV Communications line of Fiber Driver® pluggable media modules and chassis, and they compliment the OptiSwitch® line of routers and switches. With other MRV modular products, they define the ultimate in managed fiber optic networks.

Visit the MRV website at www.mrv.com or contact your nearest authorized MRV Communications dealer for more information.

OC-3 / STM - 1

| Ordering Information | | | | | | | | | | | | |
|----------------------|-----------------|----------|-----------------|--------------------|-----|---------------------------------|--------------------------|------------------------|--------------------|------------------------|---------------------|------------------------|
| Model | Description | Protocol | Wavelength (nm) | Output Power (dBm) | | Min. Receiver Sensitivity (dBm) | Min. Link Budget (dBm)** | Saturation Power (dBm) | Supply Voltage (V) | Oper. Temp. Range (°C) | Digital Diagnostics | Distance Range (km)*** |
| | | | | Min | Max | | | | | | | |
| SFP-O3-M | SFP Multi-mode | OC3/ATM | 1310 | -22 | -14 | -29 | DL* | -14 | 3.3 | 0 to 70 | No | 0 - 2 |
| SFP-O3-IR1 | SFP Single-mode | OC3/ATMs | 1310 | -15 | -8 | -28 | 12 | -8 | 3.3 | 0 to 70 | No | 0 - 24 |
| SFP-O3-LR1 | SFP Single-mode | OC3/ATM | 1310 | -3 | 2 | -34 | 30 | -8 | 3.3 | 0 to 70 | No | 20 - 60 |
| SFP-O3D-LR1 | SFP Single-mode | OC3/ATM | 1310 | -3 | 2 | -34 | 30 | -8 | 3.3 | 0 to 70 | Yes | 20 - 60 |
| SFP-O3D-LR2 | SFP Single-mode | OC3/ATM | 1550 | -3 | 2 | -34 | 30 | -8 | 3.3 | 0 to 70 | Yes | 44 - 120 |

* DL - Dispersion Limited

** Dispersion penalty may apply

*** Maximum range quoted not possible with all wavelengths and/or fiber. Please consult MRV.


OC-12 / STM - 4

| Ordering Information | | | | | | | | | | | | |
|-----------------------|--------------------|----------|------------|--------------------|-----|---------------------------------|--------------------------|------------------------|--------------------|------------------------|---------------------|------------------------|
| Model | Description | Protocol | Wavelength | Output Power (dBm) | | Min. Receiver Sensitivity (dBm) | Min. Link Budget (dBm)** | Saturation Power (dBm) | Supply Voltage (V) | Oper. Temp. Range (°C) | Digital Diagnostics | Distance Range (km)*** |
| | | | | Min | Max | | | | | | | |
| SFP-DRO12D-IR1 | SFP Single-mode | OC3/OC12 | 1310 | -15 | -8 | -28 | 12 | -8 | 3.3 | 0 to 70 | No | 0 - 24 |
| SFP-O12D-LR1 | SFP Single-mode | OC12 | 1310 | -3 | 2 | -28 | 24 | -8 | 3.3 | 0 to 70 | No | 20 - 48 |
| SFP-O12D-LR2 | SFP Single-mode | OC12 | 1550 | -3 | 2 | -28 | 24 | -8 | 3.3 | 0 to 70 | Yes | 44 - 96 |

* Dispersion penalty may apply

** Maximum range quoted not possible with all wavelengths and/or fiber. Please consult MRV.

MRV has more than 50 offices throughout the world. Addresses, phone numbers, and fax numbers are listed at www.mrv.com. Please e-mail us at sales@mrv.com or call us for assistance.

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