



## 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<sup>-10</sup>
- 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](http://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							
<b>SFP-DRO12D-IR1</b>	SFP Single-mode	OC3/OC12	1310	-15	-8	-28	12	-8	3.3	0 to 70	No	0 - 24
<b>SFP-O12D-LR1</b>	SFP Single-mode	OC12	1310	-3	2	-28	24	-8	3.3	0 to 70	No	20 - 48
<b>SFP-O12D-LR2</b>	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](http://www.mrv.com). Please e-mail us at [sales@mrv.com](mailto:sales@mrv.com) or call us for assistance.

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