Datasheet

Multi-rate SFP Interfaces

Features

- Support for protocols from 100 Mbps to 4.25 Gbps
- Multi-rate support for 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
- 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.

Ordering Information

Model	Description	Protocol (Mbps)	Wavelength (nm)	Output Power (dBm) Min	Output Power (dBm) Max	Min. Reciever Sensitivity (dBm)	Min. Link Budget (dBm)**	Saturation Power (dBm)	BER	Data Rate	Supply Voltage (V)	Oper. Temp. Range (ºC)	Digital Diagnostics	Distance Range (km)***
SFP-MR2-M	SFP Multi-mode	Multi-rate 100-200	1310	-22	-14	-29	DL*	-14	$1.0E^{-12}$ $1.00E^{-10}$ $1.00E^{-15}$	125 Mbps 155 Mbps 200 Mbps	3.3	0 to 70	No	0 - 2
SFP-MR27D-MMX	SFP Multi-mode Extender	Multi-rate 100-2700	1310	-10	-3	-20	DL*	-3	$1.00E^{-10}$ $1.00E^{-12}$	SONET 1.25 Gbps	3.3	0 to 70	Yes	0 - 1
SFP-MR27D-SR1	SFP Single-mode	Multi-rate 100-2700	1310	-10	-3	-20	10	-3	$1.00E^{-10}$ $1.00E^{-12}$	SONET 1.25 Gbps	3.3	0 to 70	Yes	0 - 20
SFP-MR27D-IR1	SFP Single-mode	Multi-rate 100-2700	1310	-5	0	-20	14	0	$1.00E^{-10}$ $1.00E^{-12}$	SONET 1.25 Gbps	3.3	0 to 70	Yes	0 - 28
SFP-MR27D-IR2	SFP Single-mode	Multi-rate 100-2700	1550	-5	0	-20	14	0	$1.00E^{-10}$ $1.00E^{-12}$	SONET 1.25 Gbps	3.3	0 to 70	Yes	0 - 56
SFP-MR27D-LR1	SFP Single-mode	Multi-rate 100-2700	1310	-2	3	-27	24	-9	$1.00E^{-10}$ $1.00E^{-12}$	SONET 1.25 Gbps	3.3	0 to 70	Yes	20 - 48
SFP-MR27D-LR2	SFP Single-mode	Multi-rate 100-2700	1550	-2	3	-28	24	-9	$1.00E^{-10}$ $1.00E^{-12}$	SONET 1.25 Gbps	3.3	0 to 70	Yes	40 - 96

* DL - Dispersion Limited
** Dispersion penalty may apply
*** Maximum range quoted not possible with all wavelengths and/or fiber. Please consult MRV.

Ordering Information

Model	Description	Protocol	Wavelength (nm)	Output Power (dBm)		Min. Reciever Sensitivity (dBm)	Min. Link Budget (dBm)**	Saturation Power(dBm)	BER	Data Rate (Gbps)	Oper. Temp. Range (°C)	Digital Diagnostics	Distance Range (km)***
				Min	Max								
SFP-DGD-SX	Dual Rate SFP, Multi-mode	GbE/1 Gbps FC/ 2.1 Gbps FC	850	-10	-2	-18	DL*	0	$1.00E^{-12}$	2.125	-20 to 85	Yes	0 - 0.50
SFP-TGD-SX	Triple Rate SFP, Multi-mode	1.063/2.125/4.25 Gbps FC/1.25 Gbps GbE	850	-10	-2	-15	DL*	0	$1.00E^{-12}$	4.25	-20 to 85	Yes	0 - 0.50
SFP-DGD-LX	Dual Rate SFP, Single-mode	GbE/1 Gbps FC/ 2.1 Gbps FC	1310	-10	-3	-21	10	0	$1.00E^{-12}$	2.125	-40 to 85	Yes	0 - 10
SFP-TGD-SR4	Triple Rate SFP, Single-mode	1.063/2.125/4.25 Gbps FC/1.25 Gbps GbE	1310	-10	3	-18	8	0	$1.00E^{-12}$	4.25	-20 to 85	Yes	0 - 10 (1GFC) 0 - 4 (4GFC)

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