



1.25Gbit SFP Optical Transceiver Modules

SFP-1G-XX-X

Industrial, Small Form Factor, Pluggable

RLH Industrial Small Form Factor Pluggable (SFP) Optical Transceivers are compatible with the Small Form Factor Pluggable Multi-Sourcing Agreement (MSA).

These 1.25Gbit SFP Transceivers are available in transmission ranges from 300m to 120km for a variety of applications.

When -3 units are used with devices that support DDMI (Digital Diagnostic Monitoring Interface), critical operating parameters can be accessed, including received optical power, transmitted optical power, laser bias current, input voltage, and internal temperature.

Key Features

- Hot-pluggable
- Uncooled laser transmitter
- Hardened to operate in -40°F to +185°F (-40°C to +85°C)
- Single and dual fiber options available
- UL Listed, TAA, NDAA, RoHS Compliant*
- SFF MSA (INF-8074i)
- IEEE 802.3/z/ah
- Supports Digital Diagnostic Monitoring Interface (DDMI)*
- 1000Base-FX, -SX, -SX+, -LX, -ZX, -EZ, -BX20, -BX60
- Ideal for Gigabit Ethernet, switch interfaces, backbone and high-speed router/server applications

*Model numbers ending in -3 offer enhanced functionality over -2 models, including, Cisco compatibility, DDMI, NDAA, TAA, and UL listing, while still meeting all -2 baseline specifications.



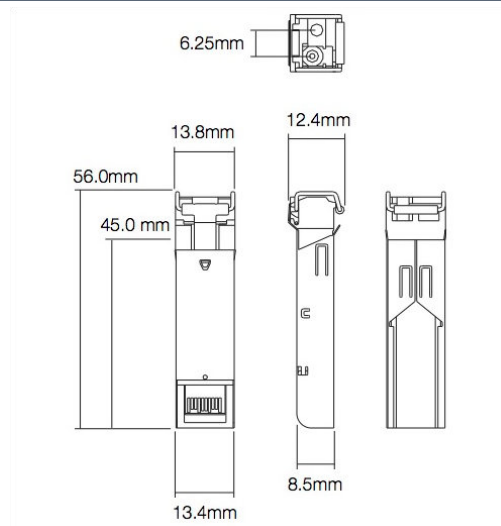
Key Specifications

Operating Supply Voltage:	3.3V Typical (3.1V~3.5V)
Operating Temperature:	-40°F to +185°F (-40°C to +85°C) *SFP-1G-34-2 (120km, SM) is rated from -4°F to +185°F (-20°C to +85°C)
Power Supply Current:	150mA Typical (300mA max)
Data Rate:	1.25Gbps



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Dimensions





Optical Characteristics

Mode	Distance	Avg. Output Power (dBm)		Transmitter Specifications			Receiver Specifications			
		Min	Max	Wavelength (nm)			Wavelength (nm)		Sensitivity (dBm)	
				Min	Typical	Max	Min	Max	Min	Max
Multimode (single fiber)	550m	-8	0	1260	1310	1360	1480	1580	-18	0
	550m	-8	0	1480	1530	1580	1260	1360	-18	0
Multimode	550m	-9.5	-4	830	850	860	770	860	-17	-3
	2km	-9	-1	1270	1310	1355	1260	1610	-19	-1
Single Mode	20km	-8	-2	1285	1310	1343	1270	1355	-23	-1
	60km	-2	+3	1520	1550	1580	1200	1600	-24	-3
	120km	0	+5	1530	1550	1570	1260	1610	-30	-9
Single Mode (single fiber)	Side A 20km	-8	-2	1270	1310	1355	1480	1500	-23	-2
	Side B 20km	-8	-2	1480	1490	1500	1260	1360	-23	-2
	Side A 60km	0	+5	1260	1310	1360	1480	1500	-24	-1
	Side B 60km	0	+5	1480	1490	1500	1260	1360	-24	-1

Ordering Information

Description	Conn.	Distance	Fibers	Wavelength	*Part Number
Multimode	LC	550m/1804 feet	Single Fiber – Side A	T-1310/R-1550	SFP-1G-01-2 / SFP-1G-01-3**
Multimode	LC	550m/1804 feet	Single Fiber – Side B	R-1310/T-1550	SFP-1G-02-2 / SFP-1G-02-3**
Multimode	LC	550m/1804 feet	Dual Fiber	850nm	SFP-1G-03-2 / SFP-1G-03-3
Multimode	LC	2km/1.2 miles	Dual Fiber	1310nm	SFP-1G-04-2 / SFP-1G-04-3
Single mode	LC	20km/12.4 miles	Dual Fiber	1310nm	SFP-1G-30-2 / SFP-1G-30-3
Single mode	LC	60km/37 miles	Dual Fiber	1550nm	SFP-1G-31-2 / SFP-1G-31-3
Single mode	LC	120km/74 miles	Dual Fiber	1550nm	SFP-1G-34-2 / SFP-1G-34-3
Single mode	LC	20km/12.4 miles	Single Fiber – Side A	T-1310/R-1550	SFP-1G-20-2 / SFP-1G-20-3
Single mode	LC	20km/12.4 miles	Single Fiber – Side B	R-1310/T-1550	SFP-1G-21-2 / SFP-1G-21-3
Single mode	LC	60km/37 miles	Single Fiber – Side A	T-1310/R-1550	SFP-1G-24-2 / SFP-1G-24-3
Single mode	LC	60km/37 miles	Single Fiber – Side B	R-1310/T-1550	SFP-1G-25-2 / SFP-1G-25-3
Single mode	SC	20km/12.4 miles	Single Fiber – Side A	T-1310/R-1550	SFP-1G-12-2 / SFP-1G-12-3**
Single mode	SC	20km/12.4 miles	Single Fiber – Side B	R-1310/T-1550	SFP-1G-13-2 / SFP-1G-13-3**
Single mode	SC	60km/37 miles	Single Fiber – Side A	T-1310/R-1550	SFP-1G-14-2 / SFP-1G-14-3**
Single mode	SC	60km/37 miles	Single Fiber – Side B	R-1310/T-1550	SFP-1G-15-2 / SFP-1G-15-3**
Cat5/6/7	RJ-45	100m/328 feet	N/A	N/A	SFP-1G-RJ-2 / SFP-1G-RJ-3**

- Single fiber (bi-directional) SFP transceivers must always be paired, side A and side B
- *Model numbers ending in -3 offer enhanced functionality over -2 models, including Cisco compatibility, DDMI, NDAA, TAA, and UL listing, while still meeting all -2 baseline specifications
- **UL listing is pending on these models

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