



10G SFP+ Optical Transceiver

Industrial Small Form Factor Pluggable

RLH Industries 10G SFP+ Optical Transceivers provide a versatile range of 10 Gigabit Ethernet connectivity solutions in a compact, hot-swappable design, enabling seamless Ethernet extension over fiber. Engineered for durability, our modules are built to withstand the demands of harsh industrial environments. Featuring rugged all-metal housings for superior electromagnetic interference shielding and extreme operating temperature ranges, RLH's SFP modules deliver exceptional performance anywhere in the network.

Key Features

- 10G Small Form-Factor Pluggable (SFP+) MSA Compliant
- Duplex LC Connector Fiber Interface
- Maximum Fiber Distance 80km
- Hardened to Operate in -40°F to +185°F (-40°C to +85°C)
- Digital Diagnostic Function (DDM) SFF-8472

Applications

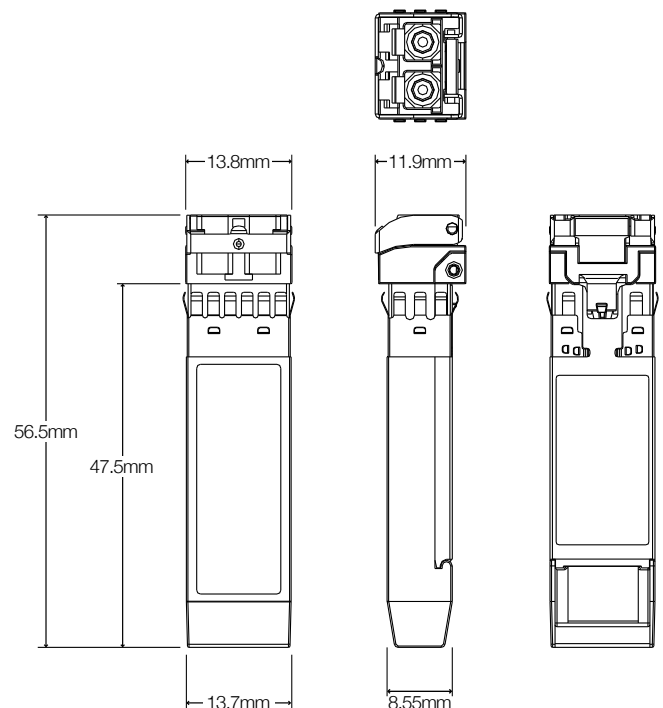
- Industrial Ethernet
- LAN, WAN and Metro Networks
- CATV / MSOs
- 10G Fiber Channel

Standards Compliance

- IEEE802.3ae 10Gb/s Ethernet
- 10GBase-SR/SW
- 10GBase-LR/LW/10GBase-ER/EW
- 10GBase-ZR/ZW
- SONET OC-192 IR-2
- SFP+ MSA SFF-8431
- DDM SFF-8472
- Class 1 Laser Product EN 60825-1
- TAA, NDAA, RoHS Compliant



10G SFP+ Optical Transceiver





General Specifications

Operating Supply voltage	3.3V Typical (3.1V~3.5V)								
Operating Temperature	-40°F to +185°F (-40°C to +85°C)								
Power Supply Current	SFP-10G-03-1, Multimode 300m		150mA Typical, (300mA max)						
	SFP-10G-10-1, Single-Mode 10km								
	SFP-10G-40-1, Single-Mode 40km		225mA Typical (450mA max)						
	SFP-10G-80-1, Single-Mode 80km		323mA Typical (645mA max)						
Data Rates	10Gbps								
Optical Characteristics		TX Power (dBm)		RX Power (dBm)		Wavelength		Sensitivity (dBm)	
		Min.	Max.	Min.	Max.	Min.	Typical	Max.	Max.
Multimode	300m/984.2ft	-10	+1	-14	0	840nm	850nm	860nm	-9.9
Single-Mode	10km/6.2mi.	-9	+2	-16	0	1290nm	1310nm	1330nm	-12.6
Single-Mode	40km/24.8mi.	-4.7	+4.7	-16	-1	1530nm	1550nm	1565nm	-15.8
Single-Mode	80km/49.7mi.	0	+4	-23	-10	1530nm	1550nm	1565nm	-23

Ordering Information

Description	Fibers	Mode	Distance	Wavelength	Part Number
RLH SFP+ Optical Transceivers 10 Gbps	Dual Fiber	Multimode	300m/984ft (OM3)*	850nm	SFP-10G-03-1
	Dual Fiber	Single-mode	10km/6.2mi.	1310 nm	SFP-10G-10-1
	Dual Fiber	Single-mode	40km/24.8mi.	1550nm	SFP-10G-40-1
	Dual Fiber	Single-mode	80km/49.7mi.	1550nm	SFP-10G-80-1

*Multimode 850nm Transmit distance: 33m (OM1 Fiber), 82m (OM2 Fiber), 300m (OM3 Fiber), 400m(OM4 Fiber)

- Please contact your RLH sales representative for pricing and delivery information

Contact

By Mail:	ATTN: Sales	
	RLH Industries, Inc. 936 N. Main Street Orange, CA 92867	
By Phone:	Local	714-532-1672
Sales/Service	Toll Free	800-877-1672
Mon - Fri, 6am - 6pm, PST		866-DO-FIBER
By Email:	info@fiberopticlink.com	
By Fax:	714-532-1885	

Support

By Email:	support@fiberopticlink.com	
By Phone:	Toll Free	855-754-2497
		855-RLH-24X7