

EX-SFP-1GE-LH Juniper Compatible 1000BASE-ZX SFP Transceiver

Features

- Supports 1000BASE Ethernet
- Transmission distance up to 80km
- Hot-Swappable if your device supports
- Lifetime Warranty
- Plugs into SFP port
- Industry-standard LC duplex connector
- Compliant to SFP Electrical & Mechanical MSA
- 0°C to +70°C case operating temperature range
- 1550nm DFB LD Transmitter
- RoHS 6/6 compliant
- Compliant with product safety standards



Product Overview

The Hummingbird Networks 100% Juniper Compatible EX-SFP-1GE-LH optical transceiver module is for transmission at 1550nm over single-mode fiber. It supports Ethernet standards which make it ideally suited for 1000BASE-ZX data communications. It offers customers a wide variety of Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport applications.

Its sub watt power consumption and its excellent EMI performance allow system design with high port density. The transmitter section uses a multiple quantum well laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The receiver section uses an integrated InGaAs detector preamplifier (IDP) mounted in an optical header and a limiting post-amplifier IC. Module is lead free, RoHS compliant and is designed and tested in accordance with industry safety standards.

Ordering Information

Part No.	Data Rate	Laser	Fiber Type	Distance	Optical Interface	DDMI
EX-SFP-1GE-LH-HN	1.25Gbps	1550nm DFB	SMF	80km	LC	NO

Supported Standards

Application	Standard	Data Rate
Gigabit Ethernet	1000BASE-ZX	1.25Gbps

Optical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit
9µm Core Diameter SMF			80		Km
Data Rate			1.25		Gbps

Transmitter					
Centre Wavelength	λ_C	1480	1550	1580	nm
Spectral Width (-20dB)	σ			1	nm
Average Output Power	P ₀ ut	0		+5	dBm
Output Optical Eye	IUT-T G.957 Compliant				
TX_Disable Assert Time	t _{off}			10	s
Receiver					
Centre Wavelength	λ_C	1100		1600	nm
Receiver Sensitivity	PIN			-24	dBm
Output Differential Impedance	PIN	90	100	110	Ω
LOS De-Assert	LOSD			-25	dBm
LOS Assert	LOSA	-40			dBm

Regulatory Compliance

The GLC-LH-SM modules are designed to meet international requirements and standards in terms of product safety. The modules optical output power meets Class 1 requirements for laser safety.

Feature	Standard	Performance
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883E Method 3015.7	Class 1(>500 V) Isolation with the case
Electromagnetic Interference (EMI)	FCC Part 15 Class B	Compatible with standards
Laser Eye Safety	FDA 21CFR 1040.10 and 1040.11 EN60950, EN (IEC) 60825-1,2	Compatible with Class I laser product. Compatible with T μ V standards
Component Recognition	UL and CUL	UL file E317337
Green Products	RoHS	RoHS6

Additional Information

For more information about our compatible SFP modules, contact:

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