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PRODUCT BRIEF

J4858x-C

HP Compatible 1000Base-SX SFP Transceiver with DDM Function



Features:

- Up to 1.25 Gb/s Data Links
- Hot-pluggable SFP footprint
- 850 nm VCSEL laser transmitter
- DDM function
- Transmission distance up to 550 m over 50/125 μ m MMF, and 300 m over 62.5/125 μ m MMF
- Duplex LC connector
- Low power dissipation
- Compliant with MSA SFP Specification
- Digital diagnostic monitoring Interface is compliant with SFF-8472
- RoHS compliance

Product Description:

This small form factor pluggable transceiver is fully compatible with original HP fiber optical transceivers. It is designed for multi-mode fiber (MMF) and operates at a nominal wavelength of 850 nm. It provides standard AC coupled CML for high speed signal and LVTTTL control and monitoring of signals. This optical transceiver consists of two sections: the transmitter uses an 850 nm VCSEL laser, the receiver section uses an integrated InGaAs detector preamplifier (IDP) mounted in an optical header and a limiting post-amplifier IC. In addition, the transceiver is compliant with SFP Multi-Source Agreement (MSA) Specification and SFF-8472

Applications :

- Gigabit Ethernet
- Fiber Channel
- Switch to switch interface
- High speed I/O for file servers

Product specifications:

Maximum Data Rate	1.25 Gbps
Wavelength	850 nm
Fibre Type	MMF
Connector Type	LC
Distance	550 m over 50/125 µm MMF, 300 m over 62.5/125 µm MMF
Power Supply	3.3 V
Operating Temperature	0 °C to 70 °C (Commercial), -40 °C to 85 °C (Industry), -5 °C to 85 °C (Extended)
Cabling Type	Ethernet 1000Base-SX
Status Indicators	Link activity, link OK
Provided Interfaces	1 x network - Ethernet 1000Base-SX - LC multi-mode x 2
Compatible Slots	1 x SFP (mini-GBIC)
Dimensions	5.80 x 1.30 x 1.30 cm
Weight	0.0168 kg

1000BASE-SX Transmitter Optical Characteristics

Parameter	Minimum	Typical	Maximum	Notes
Center Wavelength	770 nm	850 nm	860 nm	
Spectral Width			0.85 nm	rms
Average Launch Power	-9.5 dBm		-5 dBm	
Extinction Ratio	9 dB			
RIN (Relative Intensity Noise)			-117 dB/Hz	

1000BASE-SX Receiver Optical Characteristics

Parameter	Minimum	Typical	Maximum	Notes
Center Wavelength	770 nm	850 nm	860 nm	
Average Receive Power	-17 dBm		0 dBm	