



Gigabit 10KM SFP optical module

SF312A-LC-10KM

Product Brochure

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ProductIntroduction :

The SF312A-LC-10KM Small Form Factor Pluggable (SFP) transceiver is compatible with the Small Form Factor Pluggable Multi-Source Agreement (MSA). The transceiver consists of five parts: LD driver, limiting amplifier, digital diagnostic monitor, 1310nm FP laser and PIN photodetector. The module data link can reach 10KM in 9/125um single-mode fiber.



Key Features:

- Up to 1.25Gb/s data links
- FP laser transmitter and PIN photo-detector
- Up to 10km on 9/125µm SMF
- Hot-pluggable SFP footprint
- Duplex LC/UPC type pluggable optical interface
- Low power dissipation
- Metal enclosure, for lower EMI
- RoHS compliant and lead-free
- Single +3.3V power supply
- Support Digital Diagnostic Monitoring interface
- Compliant with SFF-8472
- Case operating temperature

Commercial: 0°C to +70°C

Extended: -10°C to +80°C

Industrial: -40°C to +85°C

Specifications:

System Specifications	parameter
Package Type	SFP
Maximum transfer rate	1.25Gbps
Wavelength	1310nm
Maximum transmission distance	10km
Fiber Type	Single Mode
Interface Type	LC Duplex
DDM	support
Supply voltage	3.3V
Operating temperature	0°C-70°C (commercial grade)
Warranty	2years

Main Applications

- Switch to the switch interface
- Gigabit Ethernet
- Switch backplane application
- Router/Server Interface
- Other optical links