

10 Gb/s 1550 nm SFP+ 80 km Transceiver

SFP Series



ASCENT's SFP+ transceiver SFPP-ATLP-51-80 is designed for use in 10-Gigabit Ethernet links up to 80 km over single mode fiber.

The module consists of 1550 EML Laser, InGaAs PIN and preamplifier in a high-integrated optical sub-assembly. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472. The module data link up to 80 km in 9/125 μm single- mode fiber.

The SFP+ transceivers provide a unique enhanced digital diagnostic monitoring interface, which allows real-time access to device operating parameters such as transceiver temperature, laser bias current, transmitted optical power, received optical power, and transceiver supply voltage.

It also defines a sophisticated system of alarm and warning flags, which alerts end-users when particular operating parameters are outside of a factory set normal range.

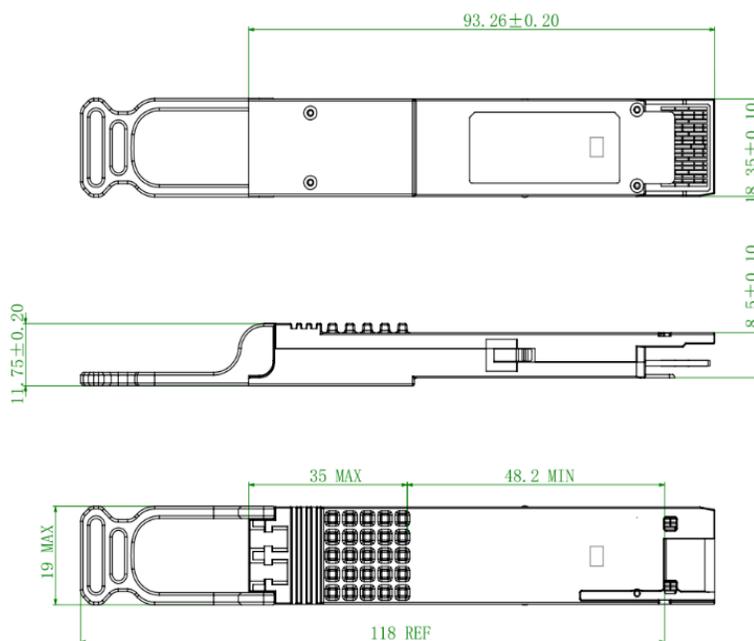
Key Features

- Up to 11.1 Gbps Data Links
- Up to 80 km transmission on SMF
- EML transmitter and PIN receiver
- Metal enclosure, for lower EMI
- 2-wire interface with integrated Digital Diagnostic monitoring
- Hot-pluggable SFP+ footprint
- Compliant with SFP+ MSA with LC connector, SFF-8472, SFF-8431
- Single 3.3V power supply
- Case operating temperature range: 0 °C to 70 °C
- Power consumption < 1.5 W
- 10BASE-ZR/ZW
- RoHS compliant

Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Operating Case Temperature	T _{case}	0	-	70	°C	Commercial
		-40	-	+85	°C	Industrial
Power Supply Voltage	V _{CC}	3.14	3.3	3.47	V	
Power Supply Current	I _{CC}	-		450	mA	
Data Rate	BR		10.3125		Gbps	
Transmission Distance	TD		-	80	km	
Average Launched Power	PO	-1		+4	dBm	
Center Wavelength	λ _c	1530	1550	1565	nm	
Transmitter OFF Output Power	POff			-30	dBm	
Input Optical Wavelength	λ	1270	1610		nm	
Single Ended Data Input Swing	V _{in, pp}	180		700	mV	
Differential Data Output Swing	V _{out, pp}	300		850	mV	

Outline Diagram



Ordering Information

Product name	Product description
SFPP-ATLP-51-80	SFP+ plug-in, 10 Gbps, 80 km, TX = 1550/RX wide, on two single-mode fibers, LC/PC blue
SFPP-ATLP-51-80A	SFP+ plug-in, 10 Gbps, 80 km, TX = 1550/RX wide, on two single-mode fibers, LC/PC blue, -40 °C to +85 °C industrial
JSPP-ATLP-51-80	SFP+ plug-in, 10 Gbps, 80 km, TX = 1550/RX wide, on two single-mode fibers, LC/PC blue Compatible with Juniper
JSPP-ATLP-51-80A	SFP+ plug-in, 10 Gbps, 80 km, TX = 1550/RX wide, on two single-mode fibers, LC/PC blue, -40 °C to +85 °C industrial, Compatible with Juniper



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