

## 10 Gb/s 1550nm SFP+ 40 km Transceiver

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### SFP+ Series



ASCENT's SFP+ transceiver SFPP-ATLP-51-40 is designed for use in 10-Gigabit Ethernet links up to 40km 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 40km in 9/125um 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.

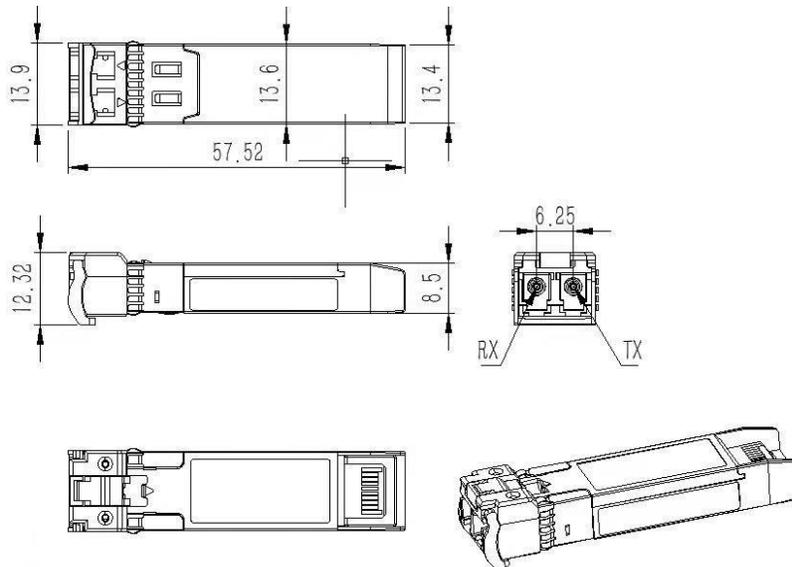
### Key Features

- Support data rate up to 11.3Gb/s
- Compliant with 10GBASE-ER/EW
- Hot-Pluggable SFP Footprint and Duplex LC Connector
- Up to 40km reach for G.652 SMF
- Temperature Range:
  - Commercial: 0°C to +70°C
  - Industrial: -40°C to +85°C
- Compliant with SFP-8431
- Compliant with SFP-8432
- Compliant with SFP-8472
- Compliant with IEEE802.3ae

## Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Operating Case Temperature	T <sub>op</sub>	0		+70	°C	SFPP-ATLP-51-40
		-40		+85	°C	SFPP-ATLP-51-40A
Power Supply Voltage	V <sub>cc</sub>	3.13	3.3	3.47	V	
Data Rate	BR		10.3125	11.3	Gbps	
				5.5		
Transmission Distance	T <sub>D</sub>			40	km	
CML Inputs(Differential)	V <sub>in</sub>	150		1200	mVpp	
CML Outputs (Differential)	V <sub>out</sub>	350		700	mVpp	
Center Wavelength	λ <sub>c</sub>	1530	1550	1565	nm	
Average Output Power	P <sub>out</sub>	-1		4	dBm	
Average Power of OFF Transmitter	P <sub>off</sub>			-30	dBm	
Wavelength Range	λ <sub>C</sub>	1270		1610	dBm	

## Outline Diagram



## Ordering Information

Product Name	Product Description
SFPP-ATLP-51-40	SFP+ Plug-in, 10Gbps, 40km, TX=1550/RX wide, on two single mode fibers, LC/PC Blue
SFPP-ATLP-51-40A	SFP+ Plug-in, 10Gbps, 40km, TX=1550/RX wide, on two single mode fibers, LC/PC Blue, Industrial Temp -40 to +85°C
JSPP-ATLP-51-40	SFP+ Plug-in, 10Gbps, 40km, TX=1550/RX wide, on two single mode fibers, LC/PC Blue, Compatible with Juniper
JSPP-ATLP-51-40A	SFP+ Plug-in, 10Gbps, 40km, TX=1550/RX wide, on two single mode fibers, LC/PC Blue, Industrial Temp -40 °C to +85 °C, Compatible with Juniper



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