

Product Specification

10GBase-SR/LRM

SINGLEMODE OPTICAL SFP+ TRANSCEIVER

10Gbps DUPLEX LC 220~300mts



Overview

Atrian optical transceivers are Small Form Factor Pluggable (SFP) compatible with the Multi Sourcing Agreement (MSA) and available as a vendor compatible SFP upon request. This family of transceivers are designed for 10Gbps 10GBase-X Ethernet transmission and operates with an integrated duplex data link over 50/125 μ m Multimode Fiber (MMF).

Atrian Small Form Factor Pluggable (SFP) transceivers provides a reliable and high-performing Gigabit Ethernet network connectivity. They can be easily installed without interrupting the host equipment in operation thanks to the hot pluggable feature.

Atrian optical transceivers are designed to be used on Atrian's media converters and switches as well as third party equipments that supports SFP transceivers.

Key Features

- **Fiber Mode:** Single Mode @ 50/125 μ m
- **Speed:** 10 Gbps
- **Distance:** 220 mts, 300 mts
- **Wavelength:** 850nm VCSEL laser, 1310nm DFB laser
- **Temperature:** -0~70°C (Commercial)
- **Connector:** Duplex LC/UPC Connector
- **DMI:** SFF-8472 DOM/DMI Diagnostic Monitoring

Regulatory Compliance

aTrian Communication Technologies transceivers are products with Class 1 Lasers that complies with FDA regulations on eye safety and ETSI EN 60825 and electrical safety measures in accordance with ETSI EN 60950.

Technical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit
Storage Temperature	Ts	-40		+85	°C
Operating Temperature	Tc		See Ordering Information;		
Power Voltage	Vcc	3.15	3.3	3.45	V
Absolute Max Voltage	Vcc	-0.5		4.0	V
Power Current	Icc			300	mA
Data Rate	DR		10		Gbps

Tx Optical Parameters	Symbol	Min.	Typical	Max.	Unit
Central Wavelength	Δc 300mts	840	850	860	nm
	Δc 220mts	1260	1310	1600	
Spectral Width (RMS)	σ 300mts			0.5	nm
	σ 220mts			3	
Power Output	Pout 300mts	-5		1	dBm
	Pout 220mts	-4		0	
Extinction Ratio	ER	3.5			dB
Launch Power of Off Transmitter	POFF			-30	dBm

Rx Optical Parameters	Symbol	Min.	Typical	Max.	Unit
Central Wavelength	Δc 300 mts	840	850	860	nm
	Δc 220 mts	1200	1310	1600	
Receive Sensitivity	PIN 300 mts			-13	dBm
	PIN 220 mts			-9	
Receiver Overload	PMAX	0.5			dBm
LOS De-Assert	LOSD 300 mts			-18	dBm
	LOSD 220 mts			-14	
LOS Assert	LOSA 300 mts	-30			dBm
	LOSA 220 mts	-20			
LOS Hysteresis	tr/tf	0.5		4.5	dB

Ordering Information

Part Number	Wavelength TX & RX	Distance 50/125 μ m SMF	Laser	Temperature
ASFP10GD850-300M ASFP10GDSR	850 nm	300 mts.	VCSEL	0~+70°C Commercial
ASFP10GD1310-220M	1310 nm	220 mts.	DFB	0~+70°C Commercial

Warranty

FIVE years of limited warranty for products sold directly by Atrian Technologies, unless special agreements have been set. Warranty period start from the ship date and will be only valid for the original customer who bought the product. If you have purchased the product from a reseller you must contact him directly. RMA Form and full warranty details are available on our website.