

Product Specification

OBSAI, CPRI applications

SINGLEMODE SFP OPTICAL MODULE

3Gbps DUPLEX LC 10km



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 3.7 Gbps transmission and operates with an integrated duplex data link over 9/125µm Single Mode Fiber (SMF).

Atrian Small Form Factor Pluggable (SFP) transceivers provides a reliable and high-performing transceiver compatible with 3G LTE , FC LW. This transceiver is suitable for CPRI and OBSAI applications.

Key Features

- **Fiber Mode:** Single Mode @ 9/125µm
- **Speed:** 3.7 Gbps
- **Distance:** 10 Km
- **Wavelength:** 1310 nm DFB Laser
- **Temperature:** -40~+85°C (Industrial)
- **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

General Parameters	Symbol	Min.	Typical	Max.	Unit
Storage Temperature	T _s	-40		+85	°C
Operating Temperature	T _c		See Ordering Information		
Power Voltage	V _{cc}	3.15	3.3	3.45	V
Absolute Max Voltage	V _{cc}	-0.5	4	4	V
Power Current	I _{cc}			200	mA
Data Rate	DR		3.125	3.7	Gbps

Tx Optical Parameters	Symbol	Min.	Typical	Max.	Unit
Central Wavelength	Δ_c	1260	1310	1360	nm
Spectral Width (RMS)	σ			1	nm
Power Output	P _{OUT}	-5		0	dBm
Extinction Ratio	ER	8			dB
Power Off	P _{OFF}			-30	dBm

Rx Optical Parameters	Symbol	Min.	Typical	Max.	Unit
Central Wavelength	λ_c	1200		1600	nm
Receive Sensitivity	P _{IN}			-14	dBm
Receiver Overload	P _{MAX}	0.5			dBm
LOS De-Assert	LOS _D			-20	dBm
LOS Assert	LOS _A	-23			dBm
LOS Hysteresis	LOS _H	0.5		4.5	dB

Ordering Information

Part Number	Wavelength TX & RX	Distance 9/125 μ m SMF	Laser	Temperature
ASFP3.7GD1310-10I	1310 nm	10 Km	DFB	-40~+85°C Industrial

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.