

## Product Specification

SFP-100ZX-55

**SINGLEMODE 155 Mbps SFP OPTICAL MODULE**  
**SDH STM L-1.2, SONET OC-3 LR2, DUPLEX LC**



## 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 SDH STM L-1.2, SONET OC-3 LR2 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 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 @ 9/125µm
- **Speed:** 155 Mbps
- **Distance:** 80 Km
- **Wavelength:** 1550 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	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		3.6	V
Power Current	Icc			300	mA
Data Rate	DR		155		Mbps

Tx Optical Parameters	Symbol	Min.	Typical	Max.	Unit
Central Wavelength	$\lambda_c$	1480	1500	1580	nm
Spectral Width (RMS)	$\sigma$			1	nm
Power Output	Pout	-1		5	dBm
Extinction Ratio	ER	10			Db
Optical Rise/Fall Time	tr/tf			2	ns

Rx Optical Parameters	Symbol	Min.	Typical	Max.	Unit
Central Wavelength	$\lambda_c$	1200	1550	1600	nm
Receive Sensitivity	PIN			-34	dBm
Receiver Overload	PMAX	-10			dBm
LOS De-Assert	LOS <sub>D</sub>			-35	dBm
LOS Assert	LOS <sub>A</sub>	-45			dBm
LOS Hysteresis	LOS <sub>H</sub>	-0.5		4.5	dB

## Ordering Information

Part Number	Wavelength TX & RX	Distance 9/125 $\mu$ m SMF	Laser	Temperature
ASFP155MD55-80	1550 nm	80 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.