

Araknis Networks Transceiver Modules1G SFP-SX Transceiver

AN-SFP-1-F-350

This Araknis Networks Accessory Small Form Plug (SFP) Transceiver Module supports multi-mode, and can be used with 850nm fiber optic cables with LC connectors. It's ideal for larger projects requiring data transfers over longer distances up to 550 meters, and pairs perfectly with Araknis Network switches featuring SFP ports. The transceiver features a 1Gbps data transfer speed and ensures stable and consistent network performance, with no loss of speed or throughput.

Product Features

- Supports up to 1Gbps bit rates
- Hot-swappable SFP footprint
- 1Gbps optical systems
- Gigabet Ethernet
- 1Gbps Fiber Channel

- 850nm VCSEL laser and PIN photo detector, Up to 550m for MMF transmission
- Compliant with RoHS
- Operating case temperature: Standard (0 to +70°C), Industrial (-40 to +85°C)



Best Used with Araknis Networks

This SFP transceiver module pairs best with Araknis Networks switches that feature SFP ports.



Designed for Fiber Optic Cables

This SFP transceiver module supports 850nm fiber optic cables with LC connectors and multimode capabilities.



High-speed Data Transfer

The transceiver module enables high-speed bi-directional data transfers over fiber optic at 1Gbps, covering distances of up to 550 meters. This makes it an excellent cost-efficient solution for larger projects like businesses and large residential properties.

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Recommended Operating Conditions

Parameter		Min	Тур	Max
Operating Case Temperature	Standard	0°C		+70°C
	Extended	−20°C		+80°C
	Industrial	-40°C		+85°C
Power Supply Voltage		3.135V	3.30V	3.465V
Power Supply Current				300mA
Data Rate		0.1Gbps	1Gbps	

Optical and Electrical Characteristics

Parameter		Min	Тур	Max	Notes/Conditions			
Transmitter								
Centre Wavelength		830nm	850nm	870nm				
Side-Mode Suppression Ratio		-	-	-				
Average Output Power		-9dBm		0dBm	1			
Extinction Ratio		9.0dB						
Data Input Swing Differential		180mV		1200mV	2			
Input Differential Impendance		90Ω	100Ω	110Ω				
TX Disable		Disable	2.0V		VccV			
1 A Disable		Enable	OV		0.8V			
TX Fault		Fault	2.0V		VccV			
1 A Fauli		Normal	OV		0.8V			
			Receive	r				
Се	Centre Wavelength		1260nm		1610nm			
Re	Receiver Sensitivity				-18dBm	3		
Re	Receiver Overload		-1dBm			3		
	LOS De-Assert				-19dBm			
	LOS Assert		-38dBm					
LOS Hysteresis		0.5dB		4dB				
Data Output Swing Differential		600mV	800mV	1000mV	4			
100		High	2.0V		VccV			
LOS		Low			0.8V			

Notes:

- The optical power is launched into SMF.
- PECL input, internally AC-coupled and terminated.
 Measured with a PRBS 27-1 test pattern @1250Mbps, BER ≤1×10-12.
 Internally AC-coupled.

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Absolute Maximum Ratings

Parameter	Min	Max	
Supply Voltage	-0.5V	4.5V	
Storage Temperature	-40°C	+85°C	
Operating Humidity	5%	85%	

Mechnical Dimensions







