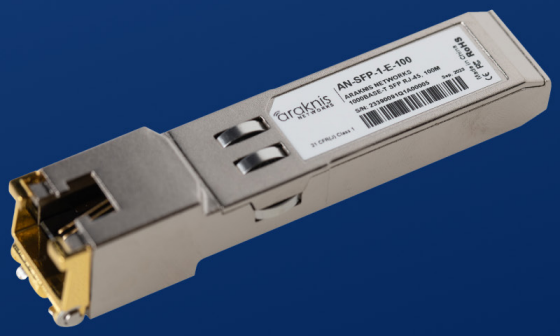
araknis® NETWORKS



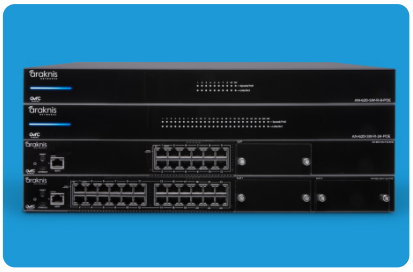
Araknis Networks Transceiver Modules
1000Base-T SFP RJ-45, 100m

AN-SFP-1-E-100

The Araknis Networks Accessory Small Form Plug (SFP) Transceiver Module offers a solution for connecting an ethernet cable without sacrificing any of your PoE ports. Supporting data transfer speeds of up to 1Gbps over ethernet for distances of up to 100 meters, this module features a metallic enclosure to reduce electromagnetic interference (EMI). It is designed for best use with Araknis Networks switches featuring SFP ports.

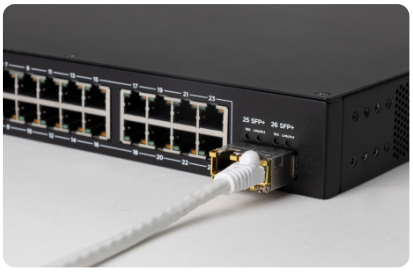
Product Features

- Up to 1Gbps bi-directional data links
- Hot-swappable SFP footprint
- 1 Gigabit ethernet cable
- Fully metallic enclosure for low EMI
- Compact RJ-45 connector
- 1000 BASE-T operation
- 10/100/1000Mbps compliant



Best Used with Araknis Networks

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



Designed for Ethernet Cables

This SFP transceiver module supports ethernet cables, removing the need to sacrifice a PoE port for data transfer.

High-speed Data Transfer

The transceiver module enables high-speed data transfers over Ethernet at 1Gbps for distances of up to 100 meters, offering a cost-efficient solution ideal for larger projects like businesses and large residential properties.

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+3.3V Electrical Power Interface

This transceiver module has an input voltage range of +3.3V +/- 5%. The 3.3V maximum voltage is not allowed for continuous operation.

Parameter	Min	Typ	Max	Notes/Conditions
Supply Current		320mA	375mA	
Input Voltage	3.13V	3.3V	3.47V	
Maximum Voltage			4V	
Surge Current			30mA	

General Specifications

Parameter	Min	Typ	Max	Notes/Conditions
Data Rate	10Mbps		1,000Mbps	IEEE 802.3 compatible. See Notes 2 through 4 below.
Cable Length		100m		BER < 10-12

Notes:

1. Clock tolerance is +/- 50 ppm
2. By default, the module is a full duplex device in preferred master mode
3. Automatic crossover detection is enabled. External crossover cable is not required

Environmental Specifications

Parameter	Min	Typ	Max	Notes/Conditions
Operating Temperature	0/–40°C		70/85°C	Case Temperature
Storage Temperature	–40°C		85°C	Ambient Temperature

References

1. Gigabit Interface Converter (GBIC) Transceiver Multi-Source Agreement (MSA),
2. IEEE Std 802.3, 2002 Edition. IEEE Standards Department, 2002.

Mechanical Specifications