

SP10 Series

10Gigabit Small Form-Factor Pluggable Modules

The Allied Telesis SP10 Series offers a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise and service provider transport applications. These industry-standard hot-swappable devices plug into an Ethernet SFP+ port in any compatible Allied Telesis product. Configurations can be optimized to meet a variety of distance and service requirements.

Compatibility

SP10 Series SFP+ modules are compatible with all Allied Telesis products that support SFP+ uplink connections.

Options

The SP10 Series offers short- and long-haul solutions. From the inexpensive Allied Telesis SP10SR to the far-reaching Allied Telesis SP10ZR80/I, the network can be extended to the distances that meet any performance need.

Interoperability

Allied Telesis Small Form Pluggables Plus (SFP+) fully comply with industry-standard networking regulations. This

compliance allows Allied Telesis SFP+ modules to be used on any networking equipment which complies with industry standards.

Applications

The Allied Telesis 10G Long Reach Multimode (LRM) optic is designed to transmit and receive optical data over a legacy OM1 multi-mode fiber link up to 220m, ideal for high-speed storage area networks, computer cluster cross-connect and custom high-speed data pipes. The extended temperature optics offer a wide operating temperature range of -40C to 85C allowing deployment in the harshest industrial environments.



Key Features

- ▶ 10Gbps data rate
- ▶ Compact size
- ▶ Flexible architecture
- ▶ Hot-swappable
- ▶ RoHS compliant
- ▶ Compliant to SFP+ Electrical MSA SFF-8431
- ▶ Compliant to SFF-8472 MSA
- ▶ Lower power consumption
- ▶ Digital diagnostics monitoring (DDM)
- ▶ Maximum data rate of 10.3Gbps

Specifications

MODEL	FIBER TYPE	MAXIMUM DISTANCE	WAVELENGTH	TRANSMIT		RECEIVE SENSITIVITY
				MIN	MAX	
SP10T	N/A	Cat 6a/7 - 20 m	N/A	N/A	N/A	N/A
SP10SR	MMF	300 m	850 nm	-7 dBm	-1 dBm	-11.2 dBm
SP10SR/I	MMF	Up to 300 m	850 nm	-5 dBm	-1 dBm	-9.9 dBm
SP10LR	SMF	Up to 10 km	1310 nm	-8.2 dBm	0.5 dBm	-12.6 dBm
SP10LR/I	SMF	Up to 10 km	1310 nm	-8.2 dBm	0.5 dBm	-14.4 dBm
SP10LRM	MMF	Up to 220 m	1310 nm	-8.2 dBm	0.5 dBm	-6.0 dBm
SP10LR20/I	SMF	Up to 20 km	1310 nm	-1 dBm	-	-13.5 dBm
SP10ER40/I	SMF	Up to 40 km	1550 nm	-4.7 dBm	4 dBm	-14.1 dBm
SP10ZR80/I	SMF	Up to 80 km	1550 nm	0 dBm	5 dBm	-20 dBm

Connector type: LC (Fiber models), RJ-45 (SP10T)

Power consumption: <1W

Environmental for Commercial temperature optics:

Operating temperature
 Fiber: 0°C to 70°C (32°F to 158°F)
 SP10T: -5°C to 85°C (23°F to 185°F)
 Storage temperature: -40°C to 85°C (-40°F to 185°F)
 Relative humidity: 0 to 80% non-condensing

Environmental for Industrial temperature optics:

Operating temperature: -40°C to 85°C (-40°F to 185°F)
 Storage temperature: -40°C to 85°C (-40°F to 185°F)
 Relative humidity: 0 to 85% non-condensing

Ordering Information

Commercial Temperature

AT-SP10T
 10GBASE-T, 20m, CAT6a/7

AT-SP10SR
 10GBASE-SR, 850 nm, MMF

AT-SP10LR
 10GBASE-LR, 1310 nm, 10 km with SMF

AT-SP10LRM
 10GBASE-LRM, 1310 nm FP, MMF

Industrial Temperature
 AT-SP10SR/I
 10GBASE-SR, 850nm, MMF, I-Temp

AT-SP10LR/I
 10GBASE-LR, 1310 nm, 10 km with SMF, I-Temp

AT-SP10LR20/I
 10GBASE-LR, 1310 nm, 20k m with SMF, I-Temp

AT-SP10ER40/I
 10GBASE-ER, 1550 nm, 40 km with SMF, I-Temp

AT-SP10ZR80/I
 10GBASE-ZR, 1550 nm, 80 km with SMF, I-Temp