



## SP Series

### Small Form Pluggable (SFP) Modules

- AT-SPTX**  
100m 10/100/1000T SFP
- AT-SPSX**  
500m 1000SX SFP
- AT-SPBD10-13**  
10km bi-directional 1000LX SFP
- AT-SPBD10-14**  
10km bi-directional SFP
- AT-SPLX10**  
10km 1000LX SFP
- AT-SPLX40**  
40km 1000LX SFP
- AT-SPLX40/1550**  
40km 1000LX SFP
- AT-SPZX80**  
80km 1000LX SFP
- AT-SPZX80/xxxx**  
80km 1000LX SFP, CWDM
- AT-SP2670SR**  
2km multi-rate SFP
- AT-SP2670IR**  
15km multi-rate SFP

**Industry Standard**  
The AT-SP series offers the latest industry standard in flexible, full-duplex Gigabit Ethernet connectivity. These hot swappable, fiber interfaces simply plug into a SFP slot on Allied Telesis' SFP compatible products. Configurations can be optimized to meet varied distance and service requirements.

**Options**  
The AT-SP series offers short-haul and long-haul solutions. From the inexpensive AT-SPSX to the far-reaching AT-SPZX80, you have the option to extend to the distances that meet your performance needs. The CWDM version allows you to take advantage of the CWDM technology in an existing network infrastructure, maximizing fiber efficiency. Multi-rate versions allow technologies other than just Gigabit Ethernet to be transmitted over single-mode fiber.

**Product Compatibility**  
The AT-SP series SFPs are compatible with all the Allied Telesis range of products supporting SFP uplink connections.

- Key Features**
- Copper and fiber solutions
  - Connect up to 80km
  - Compact size
  - Flexible architecture
  - Plug & Play ease-of-use
  - Self-locking mechanism
  - 'Colored' wavelength for CWDM use
  - Data: support for fiber channel and 2x fiber channel
  - Telecom: support for OC3/STM-1, OC12/STM-4, and OC48/STM-16
  - Two year warranty

- Ordering Information**
- AT-SPTX**  
100m 10/100/1000T (RJ-45) SFP
  - AT-SPSX**  
500m 1000SX SFP, 50 Micron MMF (850nm)  
220m 1000SX SFP, 62.5 Micron MMF (850nm)
  - AT-SPBD10-13**  
10km Bi-directional 1000LX SFP, 9 Micron SMF (1310Tx/1490Rx)
  - AT-SPBD10-14**  
10km Bi-directional 1000LX SFP, 9 Micron SMF (1490Tx/1310Rx)
  - AT-SPLX10**  
10km 1000LX SFP, 9 Micron SMF (1310nm)
  - AT-SPLX40**  
40km 1000LX SFP, 9 Micron SMF (1310nm)
  - AT-SPLX40/1550**  
40km 1000LX SFP, 9 Micron SMF (1550nm)
  - AT-SPZX80**  
80km 1000ZX SFP, 9 Micron SMF (1550nm)
  - AT-SPZX80/xxxx**  
80km 1000ZX SFP, 9 Micron SMF (xxxxnm)
  - AT-SP2670/SR**  
2km SFP, 9 Micron SMF (1310nm), Multi-rate
  - AT-SP2670/IR**  
15km SFP, 9 Micron SMF, (1310nm), Multi-rate

Where xxxx = CWDM Wavelength  
(1610nm, 1590nm, 1570nm, 1550nm, 1530nm, 1510nm, 1490nm, 1470nm)

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## Specifications

Model	Media Type	Wavelength	Transmit			Receive			Distance
			Min (dB)	Typical (dB)	Max (dB)	Min (dB)	Typical	Max (dB)	
AT-SPSX	MMF	850nm	-9.5		±3.5	-20		-3	500m
AT-SPLX10	SMF	1310nm	-9.5		-3	-22		-3	10km
AT-SPBD10-13	SMF	1310Tx/1490Rx	-9	-6	-3	-3	-3	-20	10km
AT-SPBD10-14	SMF	1490Tx/1310Rx	-9	-6	-3	-3	-3	-20	10km
AT-SPLX40	SMF	1310nm	0		5	-22		0	40km
AT-SPLX40-1550	SMF	1550nm	-5		0	-24	-26	-3	40km
AT-SPZX80	SMF	1550nm	0		5	-22		-3	80km
AT-SPZX80/CWDM	SMF	1310-1610nm	0		5	-24		-3	80km
AT-SPTX	Cat 5 UTP	N/A							100m
<b>Multi-rate</b>									
AT-SP2670/SR	SMF	1310nm	-9.5		-3	-18		0	2km
AT-SP2670/IR	SMF	1310nm	-5		0	-18		0	15km

## Standard Data Rates Supported

Model	Optical Gigabit Ethernet	1 x Fiber Channel	2 x Fiber Channel	OC-3/STM-1	OC-12/STM-4	OC-48/STM-16	1000T
AT-SPSX	✓	✓	✓				
AT-SPLX10	✓	✓	✓				
AT-SPLX40	✓	✓	✓				
AT-SPLX40-1550	✓						
AT-SPZX80	✓	✓	✓				
AT-SPZX80/CWDM	✓						
AT-SPTX	✓						✓
<b>Multi-rate</b>							
AT-SP2670/SR	✓	✓	✓	■	■	✓	
AT-SP2670/IR	✓	✓	✓	■	■	✓	

Model	Media Type	Wavelength	Max. Data Rate	Operating Temp °C	Distance
AT-SPSX	MMF	850nm	2.125Gbps	-20 to 90	500m
AT-SPLX10	SMF	1310nm	2.125Gbps	-40 to 85	10km
AT-SPLX40	SMF	1310nm	2.125Gbps	-10 to 70	40km
AT-SPLX40-1550	SMF	1550nm	1.25Gbps	-5 to 70	40km
AT-SPZX80	SMF	1550nm	2.125Gbps	-10 to 70	80km
AT-SPZX80/CWDM	SMF	1310, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610nm	1.25Gbps	-5 to 70	80km
AT-SPTX	Copper	N/A	1.25Gbps	0 to 85	100m
<b>Multi-rate</b>					
AT-SP2670/SR	SMF	1310nm	2.670Gbps	-40 to 85	2km
AT-SP2670/IR	SMF	1310nm	2.670Gbps	-10 to 70	15km

✓ = Compliant      ■ = Compatible

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