

SP Series

Gigabit Small Form-Factor Pluggable Modules

The Allied Telesis SP Series delivers flexible, full-duplex Ethernet connectivity. These hot-swappable fiber interfaces simply plug into the SFP slot on all SFP-compatible devices. Configuration can be optimized to meet a wide variety of distance and service requirements.



Compatibility

SP Series Small Form Pluggables (SFPs) are supported on all Allied Telesis devices that support SFP uplink connections.

The Allied Telesis SP Series SFPs are Multi-Sourcing Agreement (MSA) compliant. They fully comply with industry standard networking regulations. This compliance allows the Allied Telesis SFPs to be used with other MSA-compliant platforms that support SFP uplink connections.

For Cisco compatibility please refer to the 'SFP Compatibility Flyer'.

Options

The Allied Telesis SPSX Series offers short haul, long haul and Bi-Directional (BiDi) solutions. This flexibility allows a network manager to extend the distance and bandwidth of their network.

Using an SFP Bi-Directional transceiver can upgrade transmission capacity on a typical network without installing new fibers by utilizing a single fiber for both the send/receive signals.

Key Features

- ▶ Fiber solution
- ▶ Compact size
- ▶ Flexible architecture
- ▶ Plug-and-play for ease of use
- ▶ Self-locking mechanism
- ▶ MSA compliant
- ▶ Two year warranty*

*Warranties may be region specific. For local warranty periods, please visit alliedtelesis.com/support or contact your local sales office.

Specifications

Standard Gigabit SFP's

MODEL	FIBER TYPE	CONNECTOR TYPE	MAXIMUM DISTANCE	WAVELENGTH (nm)	DDM*	TRANSMIT (dBm)		RECEIVE SENSITIVITY (dBm)	Power Budget (dB)	OVERLOAD	TEMPERATURE
						MIN	MAX				
SPTX	10/100/1000T	RJ45	100 m	-	-	-	-	-	-	-	0°C to 70°C (32°F to 158°F)
SPTX-90	10/100/1000T	RJ45	100 m	-	-	-	-	-	-	-	0°C to 70°C (32°F to 158°F)
SPTX/I	10/100/1000T	RJ45	100 m	-	-	-	-	-	-	-	-40°C to 85°C (-40°F to 185°F)
SPEX	MMF	LC	2 km	1310	-	-9	-1	-19	10	-3	0°C to 70°C (32°F to 158°F)
SPSX	MMF	LC	220-550 m	850	-	-9.5	-3	-17	7.5	-3	0°C to 70°C (32°F to 158°F)
SPSX-90	MMF	LC	220-550 m	850	-	-8	-3	-19	11	-3	0°C to 70°C (32°F to 158°F)
SPSX/I	MMF	LC	220-550 m	850	Yes	-9.5	-4	-17	7.5	-3	-40°C to 85°C (-40°F to 185°F)
SPLX10	SMF	LC	10 km	1310	-	-9	-3	-20	11	-3	0°C to 70°C (32°F to 158°F)
SPLX10/I	SMF	LC	10 km	1310	Yes	-9	-3	-19	10	-3	-40°C to 85°C (-40°F to 185°F)
SPLX40	SMF	LC	40 km	1310	Yes	-4	1	-23	19	-1	0°C to 70°C (32°F to 158°F)
SPZX80	SMF	LC	80 km	1550	Yes	0	5	-24	24	-1	0°C to 70°C (32°F to 158°F)

*Digital Diagnostics Monitoring

SP Series | Gigabit Small Form-Factor Pluggable Modules

Bidi SFP's

MODEL	FIBER TYPE	CONNECTOR TYPE	MAXIMUM DISTANCE	WAVELENGTH (nm)	DDM*	TRANSMIT (dBm)		RECEIVE SENSITIVITY (dBm)	Power Budget (dB)	OVERLOAD	TEMPERATURE
						MIN	MAX				
SPBD10-13	SMF	LC	10km	1310 /1490	Yes	-9	-3	-20	11	-3	-40°C to 85°C (-40°F to 185°F)
SPBD10-14	SMF	LC	10km	1490/1310	Yes	-9	-3	-20	11	-3	-40°C to 85°C (-40°F to 185°F)
SPBD20-13/I	SMF	SC	20km	1310 /1490	-	-9	-3	-23	14	-3	-40°C to 95°C (-40°F to 203°F)
SPBD20-14/I	SMF	SC	20km	1490/1310	-	-9	-3	-23	14	-3	-40°C to 95°C (-40°F to 203°F)
SPBD20LC/I-13	SMF	LC	20km	1310/1490	Yes	-5	0	-20	15	0	-40°C to 85°C (-40°F to 185°F)
SPBD20LC/I-14	SMF	LC	20km	1490/1310	Yes	-5	0	-20	15	0	-40°C to 85°C (-40°F to 185°F)
SPBD20-14-EXT	SMF	SC	20km	1490/1310	Yes	2	7	-29	31	-1	-40°C to 85°C (-40°F to 185°F)
SPBD20EPON-13/I	SMF	SC	20km	1310/1490	Yes	-9	-1	-2	1	-1	-30°C to 85°C (-22°F to 185°F)
SPBD20DUAL-14	SMF	LC	20km	1490/1310	Yes	-8	-3	-23	15	-3	-40°C to 85°C (-40°F to 185°F)
SPBD40DUAL-14	SMF	LC	40km	1490/1310	Yes	-3	2	-23	20	-3	-40°C to 85°C (-40°F to 185°F)
SPBD40-13/I	SMF	LC	40km	1310/1490	Yes	-3	2	-23	20	-3	-40°C to 85°C (-40°F to 185°F)
SPBD40-14/I	SMF	LC	40km	1490/1310	Yes	-3	2	-23	20	-3	-40°C to 85°C (-40°F to 185°F)

*Digital Diagnostics Monitoring

Ordering Information

AT-SPSX

1000SX SFP, LC, MMF, 850 nm

AT-SPSX-90

1000SX SFP, LC, MMF, 850 nm, TAA Compliant

AT-SPSX/I

1000SX SFP, LC, MMF, 850 nm, I-Temp

AT-SPEX

1000EX SFP, LC, MMF, 1310 nm, TAA Compliant

AT-SPLX10

1000LX SFP, LC, SMF, 1310 nm (10 km)

AT-SPLX10/I

1000LX SFP, LC, SMF, 1310 nm, (10 km), I-Temp

AT-SPLX40

1000LX SFP, LC, SMF, 1310 nm, (40 km)

AT-SPZX80

1000ZX SFP, LC, SMF, 1550 nm, (80 km)

AT-SPTX

10/100/1000T SFP, RJ-45 (100 m)

AT-SPTX-90

10/100/1000T SFP, RJ-45 (100 m), TAA Compliant

AT-SPTX/I

10/100/1000T SFP, RJ-45 (100 m), I-Temp

AT-SPBD10-13

10km, 1G, SMF, BiDi, LC (1310Tx/1490Rx)

AT-SPBD10-14

10km, 1G, SMF, BiDi, LC (1490Tx/1310Rx)

AT-SPBD20-13/I

20km, 1G, SMF, BiDi, SC (1310Tx/1490Rx)

AT-SPBD20-14/I

20km, 1G, SMF, BiDi, SC (1490Tx/1310Rx)

AT-SPBD20LC/I-13

20km, 1G, SMF, BiDi, LC, TAA Compliant (1310Tx/1490Rx)

AT-SPBD20LC/I-14

20km, 1G, SMF, BiDi, LC, TAA Compliant (1490Tx/1310Rx)

AT-SPBD20-14-EXT

20km, 1G, SMF, BiDi, SC (1310Tx/1490Rx)

AT-SPBD20EPON-13/I

20 km, 1G, EPON. SMF, BiDi, LC (1310Tx, 1490Rx)

AT-SPBD20DUAL-14

20 km, 2x1G, CSFP, SMF, BiDi, LC (1490Tx/1310Rx)

AT-SPBD40DUAL-14

40 km, 2x1G, CSFP, SMF, BiDi, LC (1490Tx/1310Rx)

AT-SPBD40-13/I

40 km, 1G, SMF, BiDi, LC, TAA Compliant (1310Tx/1490Rx)

AT-SPBD40-14/I

40 km, 1 G, SMF, BiDi, LC, TAA Compliant (1490Tx/1310Rx)

