



Optical Transceivers

Allen Tel Optical Transceivers are essential components in modern networking, enabling high-speed data transmission over fiber optic cables. They convert electrical signals into optical signals and vice versa, supporting long-distance communication with minimal signal loss.

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1.0 SFP Transceivers

SFP (Small Form-factor Pluggable) units are versatile optical transceivers that support data transmission rates ranging from 100 Megabits per second (Mbps) to 800 Gigabits per second (Gbps), catering to various networking needs from standard Ethernet to high-performance data centers.

155M to 25G SFP and SFP+						
ATP P/N	SFP-CXXXX	SFP-BXXXX	SFP-DXXXX	SFP-IXXXX	SFP-RXXXXX	SFP-BXXXXC
Image						
Supporting Distances	Up to 120km	Up to 120km	Up to 120km	Up to 30km	Up to 100m	Up to 80km
Supporting Speed	155M/622M/1.25G /10G/25G	155M/622M/1.25G /10G/25G	155M/622M/1.25G /10G/25G	10/100/1000/10G	10/100/1000/10G	622M/1.25G
Wavelength	850nm-1310nm	850nm-1310nm	850nm-1310nm	850nm-1310nm	850nm-1310nm	850nm-1310nm
Fiber Mode	Multi-mode/Single-mode	BiDi	CWDM/DWDM	Multi-mode/Single-mode	100Base-T/1000Base-T/10G Base-T	BiDi
Operating Temperature	0 to 50°C	0 to 50°C	0 to 50°C	-40° to 70°C	0 to 50°C	0 to 50°C

40G and 100G QSFP

ATP P/N	QSP-PYXXXX	QSP-CYXXX	QSP-CHXXXX	QSP-DHXXX	QSP-MHXXX
Image					
Supporting Distances	Up to 10km	Up to 40km	Up to 10km	Up to 100km	Up to 100km
Supporting Speed	40G	40G	100G	100G	100G
Wavelength	850nm-1310nm	1270nm-1330nm	850nm-1310nm	1310nm	1310nm
Fiber Mode	Multi-mode	CWDM	Multi-mode/Single-mode	CWDM	LanWDM4
Operating Temperature	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C

200G to 800G QDD

ATP P/N	QDD-PDXXXX	QDD-PCXXXX	QDD-DCXXXX	OSP-PAXXXX
Image				
Supporting Distances	Up to 100m	Up to 500m	Up to 10km	Up to 100m
Supporting Speed	200G	400G	400G	800G
Wavelength	850nm	850nm-1310nm	1310nm	850nm
Fiber Mode	MPO	MPO	CWDM	MPO
Operating Temperature	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C

2.0 DAC Cables

DAC cables provide a robust and versatile connectivity solution for data transmission ranging from 10G to 100G. These Direct Attach Copper (DAC) cables are available in various configurations, including SFP+, QSFP+, and QSFP28, ensuring compatibility with a wide array of network equipment. Designed for short-range applications, DAC cables support 24AWG to 30AWG and lengths from 0.5 meters to 5 meters, making them ideal for data centers and enterprise networks.

DAC Cables						
ATP P/N	DAC-CTXXX	DAC_CBXXX	DAC-CYXXX	DAC-KYXXX	DAC-CHXXX	DAC-KHXXX
Image						
speed	10G	25G	40G	40G to 4x10G	100G	100G to 4x25G
Max Lengths	10m	10m	7m	5m	5m	5m
Diameter	30AWG	26AWG, 30AWG	30AWG	<u>26AWG, 30AWG</u>	26AWG, 30AWG	26AWG, 30AWG

3.0 AOC Cables

AOC (Active Optical Cables) provide a robust and versatile connectivity solution for data transmission ranging from 10G to 100G. These AOC cables are available in various configurations, including SFP+, QSFP+, and QSFP28, ensuring compatibility with a wide array of network equipment. Designed for short-range applications, AOC cables support lengths up to 50 meters, making them ideal for data centers and enterprise networks.

AOC Cables						
ATP P/N	AOC-CTXXX	AOC-CBXXX	AOC-CYXXX	AOC-KYXXX	AOC-CHXXX	AOC-KHXXX
Image						

Supporting speed	10G	25G	40G	40G to 4x10G	100G	100G to 4x25G
Max Lengths	30m	30m	50m	30m	30m	50m
Wavelength	850nm	850nm	850nm	850nm	850nm	850nm

4.0 Compatibility

