

# QSFP Series

## 40Gigabit Small Form-factor Pluggables

Allied Telesis QSFP Series pluggable optical modules offer the latest industry-standard 40 Gigabit Ethernet connectivity in a flexible, small form factor. These hot-swappable transceiver modules simply plug into any compatible Allied Telesis product.



### Options

The hot-swappable feature of the QSFP Series allows for network changes without removal or reconfiguration of costly network equipment.

### Applications

The QSFP Series supports 40GbE and high-density 10GbE interconnects. They are ideal for Datacom/Telecom switch and router connections, as

well as data aggregation, backplane, proprietary protocol and high-density applications.

### Interoperability

The Allied Telesis QSFP Series is fully compliant with industry-standard networking regulations. This allows Allied Telesis QSFP modules to be used on any networking equipment which complies with industry standards.

## Key Features

- ▶ Compliant with 40GbE Specification IEEE 802.3ba
- ▶ Compliant with industry-standard SFF-8436
- ▶ Compact size
- ▶ Flexible architecture
- ▶ High port density
- ▶ Hot-swappable
- ▶ RoHS compliant (SR4), RoHS-6 compliant (LR4)
- ▶ Supports Digital Diagnostics Monitoring (DDM)
- ▶ MSA Compliant
- ▶ 4 CWDM lanes MUX/DEMUX design on LR4

MODEL	MEDIA TYPE	WAVELENGTH	TRANSMIT		OPTICAL CHARACTERISTICS	
			MAXIMUM DATARATE	DISTANCE	TRANSMIT	RECEIVE SENSITIVITY
AT-QSFP SR4	MMF	850 nm	10.3Gbps	100 m on OM3 fiber 150 m on OM4 fiber	-7.6 to 2.4 dBm	-3 dBm
AT-QSFP LR4	SMF	1271, 1291, 1311 and 1331 nm*	11.2Gbps	2 m to 10 km	-7 to 2.3 dBm	-11.5 dBm

\* Central wavelengths of the 4 CWDM channels

Digital diagnostics: Yes  
 Fiber connectors: LC

### Power Consumption

Power consumption: QSFP SR4: <1.5W  
 QSFP LR4: <3.5W

### Environmental

Operating temperature: 0°C to 70°C (32°F to 158°F)  
 Storage temperature: QSFP SR4: -40°C to 85°C (-40°F to 185°F)  
 QSFP LR4: -20°C to 85°C (-4°F to 185°F)  
 Relative humidity: 0 to 85% non-condensing

## Ordering Information

### QSFP Modules

**AT-QSFP SR4**  
 40G QSFP+ SR4, 850 nm, MMF

**AT-QSFP LR4**  
 40G QSFP+ LR4, CWDM, SMF

### Accessories: QSFP+ Cables

**AT-QSFP1CU**  
 QSFP+ 1 m cable

**AT-QSFP3CU**  
 QSFP+ 3 m cable

### Breakout Cables

**AT-QSFP-4SFP10G-3CU**  
 QSFP+ port to 4 x 10G ports, 3 m

**AT-QSFP-4SFP10G-5CU**  
 QSFP+ port to 4 x 10G ports, 5 m

### Optical Cables

**AT-MTP12-1**  
 MTP cable for QSFP Series, 1 m

**AT-MTP12-5**  
 MTP cable for QSFP Series, 5 m