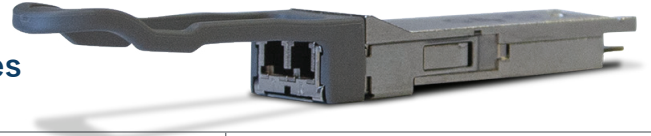


# QSFP 40 Gigabit Series

## 40 Gigabit Small Form-Factor Pluggable Modules



The Allied Telesis QSFP Series offers the latest industry-standard connectivity in a flexible, small form factor. These hot-swappable transceiver modules simply plug into any compatible Allied Telesis product.

### Options

Allied Telesis QSFP Series Gigabit Small Form-Factor Pluggables (SFPs) are supported on all Allied Telesis devices with SFP uplink connections.

The hot-swappable 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 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 and ER4

## TECHNICAL SPECIFICATIONS

	Fiber type	Connector type	Maximum distance	Wavelength	DDM*	Transmit		Receive sensitivity	Power budget	Overload	Operating temperature
						min	max				
<b>QSFP SR4</b>	MMF	MPO-12	100 m on OM3 fiber 150 m on OM4 fiber	850 nm	Yes	-8 dBm	2 dBm	-11 dBm	3 dBm	3 dBm	0°C to 70°C (32°F to 158°F)
<b>QSFP SR4LC</b>	MMF	LC	100 m on OM3 fiber 150 m on OM4 fiber	850 nm	Yes	-4 dBm	5 dBm	-11 dBm	7 dBm	0.5 dBm	0°C to 70°C (32°F to 158°F)
<b>QSFP LR4</b>	SMF	LC	2 m to 10 km	1271 nm** 1291 nm** 1311 nm** 1331 nm**	Yes	-7 dBm	2 dBm	-11 dBm	4 dBm	3 dBm	0°C to 70°C (32°F to 158°F)
<b>QSFP ER4</b>	SMF	LC	40 km	1271 nm** 1291 nm** 1311 nm** 1331 nm**	Yes	-3 dBm	5 dBm	-19 dBm	16 dBm	0.5 dBm	0°C to 70°C (32°F to 158°F)

\*Digital Diagnostics Monitoring

\*\* Central wavelengths of the 4 CWDM channels

## Power Consumption

- Power consumption: QSFPSR4: <1.5W  
QSFPLR4: <3.5W  
QSFPS4RLC: <1.5W  
QSFPER4: <3.5W

## Environmental

- Operating temperature 0°C to 70°C (32°F to 158°F)
- Storage temperature
  - QSFPSR4: -40°C to 85°C (-40°F to 185°F)
  - QSFPLR4: -20°C to 85°C (-4°F to 185°F)
  - QSFPS4RLC: -40°C to 85°C (-40°F to 185°F)
  - QSFPER4: -20°C to 85°C (-4°F to 185°F)
- Relative humidity 0 to 85% non-condensing

## ORDERING INFORMATION

QSFP Modules	
AT-QSFPSR4	40G, QSFP SR4, MMF, MPO-12
AT-QSFPSR4LC	40G QSFP SR4, MMF, LC
AT-QSFPLR4	40G, QSFP LR4 (10 km), CWDM, LC
AT-QSFPER4	40G, QSFP, ER4 (40 km), CWDM, LC
Accessories: Optical Cables	
AT-MTP12-1	MTP Cable for AT-QSFPSR4 only, length 1 m
AT-MTP12-5	MTP Cable for AT-QSFPSR4 only, length 5 m