Transceiver Modules | Product Information

Allied Telesis

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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 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 and ER4

Technical Specifications

PRODUCT	FIBER TYPE	CONNECTOR Type	MAXIMUM DISTANCE	WAVELENGTH (nm)	DDM*	TRANSMIT (dBm)		RECEIVE SENSITIVITY	POWER BUDGET	OVERLOAD (dBm)	OPERATING TEMPERATURE
						MIN	MAX	(dBm)	(dBm)	(abiii)	
QSFPSR4	MMF	MP0-12	100 m on OM3 fiber 150 m on OM4 fiber	850	Yes	-8	2	-11	3	3	0°C to 70°C (32°F to 158°F)
QSFPSR4LC	MMF	LC	100 m on OM3 fiber 150 m on OM4 fiber	850	Yes	-4	5	-11	7	0.5	0°C to 70°C (32°F to 158°F)
QSFPLR4	SMF	LC	2 m to 10 km	1271 nm** 1291 nm** 1311 nm** 1331 nm**	Yes	-7	2	-11	4	3	0°C to 70°C (32°F to 158°F)
QSFPER4	SMF	LC	40 km	1271 nm** 1291 nm** 1311 nm** 1331 nm**	Yes	-3	5	-19	16	0.5	0°C to 70°C (32°F to 158°F)

*Digital Diagnostics Monitoring ** Central wavelenghts of the 4 CWDM channels

Power Consumption

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

Environmental

Operating temperature Storage temperature QSFPSR4: QSFPLR4: QSFPS4RLC: QSFPER4: Relative humidity QSFPS4RLC: <1.5W QSFPER4: <3.5W

0°C to 70°C (32°F to 158°F)

-40°C to 85°C (-40°F to 185°F)

-40°C to 85°C (-40°F to 185°F)

-20°C to 85°C (-4°F to 185°F)

0 to 85% non-condensing

-20°C to 85°C (-4°F to 185°F)

QSFP Modules

AT-QSFPSR4 40G, QSFP SR4, MMF, MP0-12

Ordering Information

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

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