

40Gb/s QSFP+ Transceiver

DESIGNED FOR USE IN 40 GIGABIT ETHERNET APPLICATIONS. COMPLIANT WITH THE QSFP MSA AND IEEE 802.3BA

Amphenol provides a series of 40G QSFP+ optical module products, including SR4, eSR4, IR4, LR4, ER4 lite, AOC and AOC breakout series. This series of products adopts LC or MPO optical port and is compatible with IEEE802.3bm, SFF-8436 and other standards; It has the characteristics of low power consumption, small size, high speed, and is applied to large data centers, campus networks, metropolitan area networks and other environments.

- Low power dissipation
- Up to 11.1Gb/s data rate per lane
- With Digital Diagnostics Monitoring Interface
- Electrically hot-pluggable
- Compliant with QSFP+ MSA and RoHS



TARGET MARKETS



FEATURES & BENEFITS

- Hot-pluggable QSFP+ form factor
- Up to 11.1Gb/s data rate per lane
- Single 3.3V power supply
- Case Operating Temperature Range: 0°C to 70°C
- Low power dissipation
- RoHS compliant
- Compliant with SFF 8436

TECHNICAL INFORMATION

MECHANICAL PERFORMANCE

- SFF-8436

ELECTRICAL PERFORMANCE

- IEEE 802.3ba

PACKAGING

- QSFP+

APPROVALS AND CERTIFICATIONS

- UL, TUV

SPECIFICATION

- IEEE 802.3ba

ENVIRONMENTAL

- Case Operating Temperature Range: 0°C to 70°C

TARGET MARKETS/APPLICATIONS



Router
Server
ODD
HDD



Base Station
Power
Switches

PART NUMBERS

Description	Part Numbers
40G QSFP+ SR4 TRANSCEIVER WITH DDM C-TEMP	QXP85A4-02D
40G QSFP+ ESR4 TRANSCEIVER WITH DDM C-TEMP	QXP85A4-03D
40G QSFP+ IR4 2KM SINGLE-MODE TRANSCEIVER WITH DDM C-TEMP	QXP27A4-02D
40G QSFP+ LR4 10KM SINGLE-MODE TRANSCEIVER WITH DDM C-TEMP	QXP27A4-10D
40G QSFP+ LR4 10KM SINGLE-MODE RECEIVER WITH DDM C-TEMP	QXP27A4-10D-RX
40G QSFP+ 30KM SINGLE-MODE TRANSCEIVER WITH DDM C-TEMP	QXP27A4-30D
40G QSFP+ ACTIVE OPTICAL CABLES	AQP85A4-XXX
40G QSFP+ TO 4X10G SFP+ ACTIVE OPTICAL CABLES	AQP-XPA4-XXX

Find part number details using the search box on www.amphenol-cs.com

KEY PARAMETER SPECIFICATIONS

Product Name	Part Number	Package	Interface	Reach	Fiber type	Wavelength	Rate	Tx Output (dBm)	Rx Input (dBm)	Power Consumption	Temp (°C)
40G SR4	QXP85A4-02D	QSFP+	MPO	100m(OM3) 150m(OM4)	Multi-mode	850nm	40Gb/s	-7.6~2.4	-9.5~2.4	≤0.7W	0~70
40G eSR4	QXP85A4-03D	QSFP+	MPO	300m(OM3) 400m(OM4)	Multi-mode	850nm	40Gb/s	-7.6~2.4	-9.9~2.4	≤0.7W	0~70
40G IR4	QXP27A4-02D	QSFP+	LC	2km	Single-Mode	1271nm/1291nm/ 1311nm/1331nm	40Gb/s	-7~1	-11.5~1	≤2.5W	0~70
40G LR4	QXP27A4-10D	QSFP+	LC	10km	Single-Mode	1271nm/1291nm/ 1311nm/1331nm	40Gb/s	-7~2.3	-11.5~2.3	≤2.5W	0~70
40G LR4 Rx	QXP27A4-10D-RX	QSFP+	LC	10km	Single-Mode	1271nm/1291nm/ 1311nm/1331nm	40Gb/s	-	-11.5~2.3	≤1.5W	0~70
40G ER4 lite	QXP27A4-30D	QSFP+	LC	30km	Single-Mode	1271nm/1291nm/ 1311nm/1331nm	40Gb/s	-2~2.3	-12~2.3	≤3.5W	0~70
QSFP+ AOC	AQP85A4-XXX	QSFP+	AOC	300m(OM3)	Multi-mode	850nm	40Gb/s	/	/	≤1.5W	0~70
QSFP+ to SFP+ AOC	AQP-XPA4-XXX	QSFP+/SFP+	AOC	100m(OM3) 150m(OM4)	Multi-mode	850nm	40Gb/s	/	/	≤1.5W	0~70