

HPE FlexNetwork 7500 2.4Tbps Fabric with 8-port 1/10GbE SFP+ and 2-port 40GbE QSFP+ Main Processing Unit - LSQM1SRP8X2QE0 (JH209A, JH217A)

1 Card identifier

The card identifier LSQM1SRP8X2QE0 is at the upper right of the front panel.

2 Specifications



IMPORTANT:

Before installing the card, you must remove the protection cover from the card.

Table 1 LSQM1SRP8X2QE0 specifications

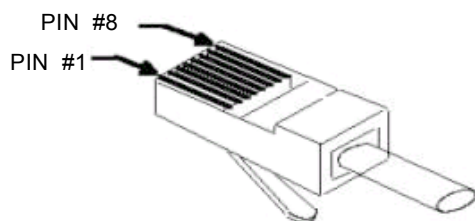
Item	Specifications
Flash	1 GB
SDRAM (DDR3)	4 GB
Card size (H × W × D)	40 × 399 × 355 mm (1.57 × 15.71 × 13.98 in)
Power consumption	60 W to 140 W
Ports	<ul style="list-style-type: none"> • 1 x console port • 1 x USB console port • 4 x network management ports: 2 × 10/100/1000BASE-T copper ports and 2 SFP fiber ports • 8 x SFP+ ports • 2 x QSFP+ ports • 1 x USB port
Port speed	<ul style="list-style-type: none"> • Console port: ≤ 115200 bps (default: 9600 bps) • USB console port: ≤ 115200 bps (default: 9600 bps) • 10/100/1000BASE-T copper port: 10/100/1000 Mbps, half/full duplex • SFP fiber port: 1000 Mbps • SFP+ fiber port: 10.3125 Gbps • QSFP+ fiber port: 41.25 Gbps
Transmission medium and max transmission distance	<ul style="list-style-type: none"> • Console port: 15 m (49.21 ft) over ordinary asynchronous serial port cables • USB console port: 10 m (32.81 ft) over USB-AB cables • 10/100/1000BASE-T copper port: 100 m (328.1 ft) over Category 5 or higher twisted pair cables • SFP fiber port: see Table 3 • SFP+ fiber port: see Table 3, Table 4, and Table 5 • QSFP+ fiber port: see Table 6 and Table 7
Net weight	4.4 kg (9.70 lb)

Item	Specifications
Compatible device models	7503, 7506, 7510
Applicable host software versions	Version 7168 or later

NOTE:

To successfully connect an Ethernet port to a network management port (SFP port) on the card, make sure the Ethernet port is operating in full duplex mode and at the port speed of 1000 Mbps.

The 10/100/1000BASE-T copper port uses an RJ-45 connector.

Figure 1 RJ-45 connector**Table 2 RJ-45 GE connector pinout**

Pin	10BASE-T/100BASE-TX/1000BASE-T	
	Signal	Function
1	MX_0+	Transmits and receives data.
2	MX_0-	Transmits and receives data.
3	MX_1+	Transmits and receives data.
4	MX_2+	Transmits and receives data.
5	MX_2-	Transmits and receives data.
6	MX_1-	Transmits and receives data.
7	MX_3+	Transmits and receives data.
8	MX_3-	Transmits and receives data.

Table 3 describes the SFP transceiver modules available for the SFP ports on the card.

Table 3 SFP transceiver module specifications

Product code	Description	Central wavelength	Connector type	Cable specifications	Maximum transmission distance
JD089B	HPE X120 1G SFP RJ45 T Transceiver	N/A	RJ-45	Category-5 twisted pair cable	100 m (0.06 miles)
JD118B	HPE X120 1G SFP LC SX Transceiver	850 nm	LC	50/125 μ m multi-mode optical fiber	550 m (0.34 miles)
JD118B	HPE X120 1G SFP LC SX Transceiver	850 nm	LC	62.5/125 μ m multi-mode optical fiber	275 m (0.17 miles)

Product code	Description	Central wavelength	Connector type	Cable specifications	Maximum transmission distance
JD119B	HPE X120 1G SFP LC LX Transceiver	1310 nm	LC	9/125 μ m single-mode optical fiber	10 km (6.21 miles)
JD119B	HPE X120 1G SFP LC LX Transceiver	1310 nm	LC	50/125 μ m multi-mode optical fiber	550 m (1804.46 ft)
JD119B	HPE X120 1G SFP LC LX Transceiver	1310 nm	LC	62.5/125 μ m multi-mode optical fiber	550 m (1804.46 ft)
JD061A	HPE X125 1G SFP LC LH40 1310nm Transceiver	1310 nm	LC	9/125 μ m single-mode optical fiber	40 km (24.86 miles)
JD062A	HPE X120 1G SFP LC LH40 1550nm Transceiver	1550 nm	LC	9/125 μ m single-mode optical fiber	40 km (24.86 miles)
JD063B	HPE X125 1G SFP LC LH70 Transceiver	1550 nm	LC	9/125 μ m single-mode optical fiber	70 km (43.50 miles)
JD103A	HPE X120 1G SFP LC LH100 Transceiver	1550 nm	LC	9/125 μ m single-mode optical fiber	100 km (62.14 miles)
JD098B	HPE X120 1G SFP LC BX 10-U Transceiver	RX: 1490 nm TX: 1310 nm	LC	9/125 μ m single-mode optical fiber	10 km (6.21 miles)
JD099B	HPE X120 1G SFP LC BX 10-D Transceiver	RX: 1310 nm TX: 1490 nm	LC	9/125 μ m single-mode optical fiber	10 km (6.21 miles)

NOTE:

- BIDI modules must be used in pairs. If a JD098B is used at one end, a JD099B must be used at the other end.
- The SFP fiber port does not support the JD089B modules.

Table 4 describes the SFP+ transceiver modules available for the SFP+ ports on the card.

Table 4 SFP+ transceiver module specifications

Product code	Description	Central wavelength	Connector type	Cable specifications	Maximum transmission distance
JD092B	HPE X130 10G SFP+ LC SR Transceiver	850 nm	LC	50/125 μ m multi-mode optical fiber	300 m (984.25 ft)
JD092B	HPE X130 10G SFP+ LC SR Transceiver	850 nm	LC	50/125 μ m multi-mode optical fiber	82 m (269.03 ft)
JD092B	HPE X130 10G SFP+ LC SR Transceiver	850 nm	LC	50/125 μ m multi-mode optical fiber	66 m (216.54 ft)

Product code	Description	Central wavelength	Connector type	Cable specifications	Maximum transmission distance
JD092B	HPE X130 10G SFP+ LC SR Transceiver	850 nm	LC	62.5/125 μ m multi-mode optical fiber	33 m (108.27 ft)
JD092B	HPE X130 10G SFP+ LC SR Transceiver	850 nm	LC	62.5/125 μ m multi-mode optical fiber	26 m (85.30 ft)
JD094B	HPE X130 10G SFP+ LC LR Transceiver	1310 nm	LC	9/125 μ m single-mode optical fiber	10 km (6.21 miles)
JG234A	HPE X130 10G SFP+ LC LH 40km Transceiver	1310 nm	LC	9/125 μ m single-mode optical fiber	40 km (24.86 miles)
JG915A	HPE X130 10G SFP+ LC LH 80km Transceiver	1550 nm	LC	9/125 μ m single-mode optical fiber	80 km (49.71 miles)

Table 5 describes the SFP+ DAC cables available for the SFP+ ports on the card.

Table 5 SFP+ DAC cable specifications

Product code	Description	Connector	Length
JD095C	HPE X240 10G SFP+ SFP+ 0.65m DA Cable	SFP+	0.65 m (2.13 ft.)
JD096B	HPE X240 10G SFP+ SFP+ 1.2m DA Cable	SFP+	1.2 m (3.94 ft)
JD096C	HPE X240 10G SFP+ SFP+ 1.2m DA Cable	SFP+	1.2 m (3.94 ft)
JD097B	HPE X240 10G SFP+ SFP+ 3m DA Cable	SFP+	3 m (9.84 ft)
JD097C	HPE X240 10G SFP+ SFP+ 3m DA Cable	SFP+	3 m (9.84 ft)
JG081C	HPE X240 SFP+ SFP+ 5m DAC Cable	SFP+	5 m (16.40 ft.)
JC784C	HPE X240 10G SFP+ SFP+ 7m DAC Cable	SFP+	7 m (22.97 ft.)

Table 6 describes the QSFP+ transceiver modules available for the QSFP+ ports on the card.

Table 6 QSFP+ transceiver module specifications

Product code	Description	Central wavelength	Connector	Fiber specifications	Modal bandwidth	Maximum transmission distance
JG325B	HPE X140 40G QSFP+ MPO SR4 Transceiver	850 nm	MPO	50/125 μ m multi-mode optical fiber	2000 MHz*km	100 m (328.08 ft.)
JG325B	HPE X140 40G QSFP+ MPO SR4 Transceiver	850 nm	MPO	50/125 μ m multi-mode optical fiber	4700 MHz*km	150 m (492.13 ft.)
JG709A	HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	850 nm	MPO	50/125 μ m multi-mode optical fiber	2000 MHz*km	300 m (984.25 ft.)

Product code	Description	Central wavelength	Connector	Fiber specifications	Modal bandwidth	Maximum transmission distance
JG709A	HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	850 nm	MPO	50/125 μ m multi-mode optical fiber	4700 MHz*km	400 m (492.13 ft.)
JG661A	HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	1271 nm 1291 nm 1311 nm 1331 nm	LC	9/125 μ m single-mode optical fiber	N/A	10 km (6.21 miles)
JL306A	HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	1271nm 1291nm 1311nm 1331nm	LC	9/125 μ m single-mode optical fiber	N/A	40km(24.85miles)

Table 6 describes the QSFP+ transceiver modules available for the QSFP+ ports on the card.

Table 7 QSFP+ AOC module specifications

Product code	Description	Cable length	Cable type	Description
JL287A	HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	7m(22.96ft)	40G QSFP+ AOC cable	For connecting 40G QSFP+ ports
JL288A	HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	10m(32.81ft)		
JL289A	HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	20m(65.61ft)		

3 Obtaining documentation

For card installation, see *HPE FlexNetwork 7500 Switch Series Installation Guide*.

For software upgrade, see *HPE FlexNetwork 7500 Switch Series Software Upgrade Guide*.

To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:

www.hpe.com/support/hpesc



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