

# HPE LSWM124XG2QFC Interface Module (JH184A) User Guide

Part number: 5998-7151t

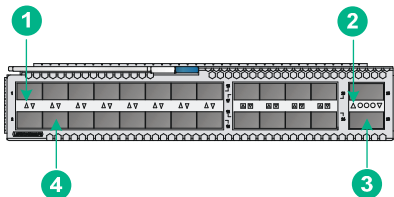
## Introduction

Product code	HPE description	Alias
JH184A	HPE 5930 24-port Converged Port and 2-port QSFP+ Module	LSWM124XG2 QFC

## Overview

Each LSWM124XG2QFC interface module provides 24 SFP+ ports and two QSFP+ ports.

**Figure 1 LSWM124XG2QFC interface module front panel**



(1) SFP+ port LED  
(3) QSFP+ port

(2) QSFP+ port LED  
(4) SFP+ port

## SFP+ ports

The SFP+ ports on the LSWM124XG2QFC interface module support the following transceiver modules and cables:

- SFP transceiver modules in [Table 1](#) and [Table 2](#).

- SFP+ transceiver modules in [Table 3](#) and [Table 4](#).
- SFP+ cables in [Table 5](#).

**Table 1 1000 Mbps SFP transceiver modules available for the SFP+ ports (1)**

Product code	HPE description	Central wavelength (nm)	Connector
JD089B	HPE X120 1G SFP RJ45 T Transceiver	N/A	RJ-45
JD118B	HPE X120 1G SFP LC SX Transceiver	850	LC
JD119B	HPE X120 1G SFP LC LX Transceiver	1310	LC
JD061A	HPE X125 1G SFP LC LH40 1310nm Transceiver	1310	LC
JD062A	HPE X120 1G SFP LC LH40 1550nm Transceiver	1550	LC
JD063B	HPE X125 1G SFP LC LH70 Transceiver	1550	LC

**Table 2 1000 Mbps SFP transceiver modules available for the SFP+ ports (2)**

Product code	Cable/fiber diameter ( $\mu\text{m}$ )	Modal bandwidth (MHz $\times$ km)	Max transmission distance
JD089B	Category-5 twisted pair	N/A	100 m (328.08 ft)
JD118B	Multi-mode, 50/125	500	550 m (1804.46 ft)
		400	500 m (1640.42 ft)
	Multi-mode, 62.5/125	200	275 m (902.23 ft)
		160	220 m (721.78 ft)

<b>Product code</b>	<b>Cable/fiber diameter (<math>\mu\text{m}</math>)</b>	<b>Modal bandwidth (MHz x km)</b>	<b>Max transmission distance</b>
JD119B	Single-mode, 9/125	N/A	10 km (6.21 miles)
	Multi-mode, 50/125	500 or 400	550 m (1804.46 ft)
	Multi-mode, 62.5/125	500	550 m (1804.46 ft)
JD061A	Single-mode, 9/125	N/A	40 km (24.86 miles)
JD062A	Single-mode, 9/125	N/A	40 km (24.86 miles)
JD063B	Single-mode, 9/125	N/A	70 km (43.50 miles)

**Table 3 10G SFP+ transceiver modules available for the SFP+ ports (1)**

<b>Product code</b>	<b>HPE description</b>	<b>Central wavelength (nm)</b>	<b>Connector</b>
JD092B	HPE X130 10G SFP+ LC SR Transceiver	850	LC
JD094B	HPE k X130 10G SFP+ LC LR Transceiver	1310	LC
JG879A	HPE X190 8G/4G/2G SFP+ LC Short Wave Transceiver	850	LC
JG880A	HPE X190 8G/4G/2G SFP+ LC Long Wave Transceiver	1310	LC

**Table 4 10G SFP+ transceiver modules available for the SFP+ ports (2)**

Product Code	Fiber diameter (µm)	Modal bandwidth (MHz × km)	Max transmission distance
JD092B	Multi-mode, 50/125	2000	300 m (984.25 ft)
		500	82 m (269.03 ft)
		400	66 m (216.54 ft)
	Multi-mode, 62.5/125	200	33 m (108.27 ft)
		160	26 m (85.30 ft)
JD094B	Single-mode, 9/125	N/A	10 km (6.21 miles)
JG879A	Multi-mode, 62.5/125	200	150 m (492.13 ft)
	Multi-mode, 50/125	500	380 m (1246.72 ft)
		2000	500 m (1640.42 ft)
JG880A	Single-mode, 9/125	N/A	10 km (6.21 miles)

**Table 5 SFP+ cables available for the SFP+ ports**

Product code	HPE description	Cable length	Data rate
JD095B	HPE X240 10G SFP+ SFP+ 0.65m DA Cable	0.65 m (2.13 ft)	10.31 Gbps
JD096B	HPE X240 10G SFP+ SFP+ 1.2m DA Cable	1.2 m (3.94 ft)	10.31 Gbps
JD097B	HPE X240 10G SFP+ SFP+ 3m DA Cable	3 m (9.84 ft)	10.31 Gbps

Product code	HPE description	Cable length	Data rate
JG081C	HPE X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	5 m (16.40 ft)	10.31 Gbps

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**NOTE:**

As a best practice, use HPE transceiver modules and cables for the SFP+ ports. The available transceiver modules and cables might change over time. For the most recent list of available transceiver modules and cables, contact Hewlett Packard Enterprise Support or marketing staff.

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For more information about HPE SFP transceiver modules, SFP+ transceiver modules, and SFP+ cables, see *HPE Comware-Based Devices Transceiver Modules User Guide*.

## QSFP+ ports

The QSFP+ ports on the LSWM124XG2QFC interface module support the following transceiver modules and cables:

- QSFP+ transceiver modules in [Table 6](#) and [Table 7](#).
- QSFP+ cables in [Table 8](#).
- QSFP+ to SFP+ cables in [Table 9](#).

**Table 6 40G QSFP+ transceiver modules available for the QSFP+ ports (1)**

Product code	HPE description	Central wavelength (nm)	Connector
JG325B	HPE X140 40G QSFP+ MPO SR4 Transceiver	850	MPO
JG709A	HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	850	MPO

Product code	HPE description	Central wavelength (nm)	Connector
JG661A	HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	Four lanes: <ul style="list-style-type: none"> <li>• 1271</li> <li>• 1291</li> <li>• 1311</li> <li>• 1331</li> </ul>	LC

**Table 7 40G QSFP+ transceiver modules available for the QSFP+ ports (2)**

Product code	Cable/fiber diameter ( $\mu\text{m}$ )	Modal bandwidth (MHz x km)	Max transmission distance
JG325B	Multi-mode, 50/125	2000	100 m (328.08 ft)
		4700	150 m (492.13 ft)
JG709A	Multi-mode, 50/125	2000	300 m (984.25 ft)
		4700	400 m (1312.34 ft)
JG661A	Single-mode, 9/125	N/A	10 km (6.21 miles)

**Table 8 40G QSFP+ cables available for the QSFP+ ports**

Product Code	HPE description	Cable length	Data rate
JG326A	HPE X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	1 m (3.28 ft)	40 Gbps
JG327A	HPE X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	3 m (9.84 ft)	40 Gbps
JG328A	HPE X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	5 m (16.40 ft)	40 Gbps

**Table 9 40G QSFP+ to SFP+ cables available for the QSFP+ ports**

<b>Product Code</b>	<b>HPE description</b>	<b>Cable length</b>	<b>Data rate</b>
JG329A	HPE X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	1 m (3.28 ft)	40 Gbps
JG330A	HPE X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	3 m (9.84 ft)	40 Gbps
JG331A	HPE X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	5 m (16.40 ft)	40 Gbps

**NOTE:**

- When you install the interface module on the HPE FlexFabric 5930 4-Slot Switch (JH179A) and HPE FlexFabric 5930 4-Slot TAA Switch (JH188A), the 40-GE QSFP+ ports on the interface modules cannot be split into four 10-GE SFP+ ports.
- As a best practice, use HPE transceiver modules and cables for the QSFP+ ports. The available transceiver modules and cables might change over time. For the most recent list of available transceiver modules and cables, contact Hewlett Packard Enterprise Support or marketing staff.

For more information about HPE QSFP+ transceiver modules, QSFP+ cables, and QSFP+ to SFP+ cables, see *HPE Comware-Based Devices Transceiver Modules User Guide*.

## **LEDs**

[Table 10](#) describes SFP+ port LEDs. [Table 11](#) describes QSFP+ port LEDs.

**Table 10 SFP+ port LED description**

<b>LED status</b>	<b>Description</b>
Steady green	A transceiver module or cable has been correctly installed. The port has a link and is operating at 10 Gbps.
Flashing green	The port is sending or receiving data at 10 Gbps.
Steady yellow	A transceiver module or cable has been correctly installed. The port has a link and is operating at 1 Gbps.
Flashing yellow	The port is sending or receiving data at 2 Gbps or 4 Gbps.
Off	No transceiver module or cable has been installed or no link is present on the port.

**Table 11 QSFP+ port LED description**

<b>LED status</b>	<b>Description</b>
Steady green	A transceiver module or cable has been correctly installed. The port has a link and is operating at 40 Gbps.
Flashing green	The port is sending or receiving data at 40 Gbps.
Steady yellow	A transceiver module or cable has been correctly installed. The port has a link and is operating at 10 Gbps.
Flashing yellow	The port is sending or receiving data at 10 Gbps.
Off	No transceiver module or cable has been installed or no link is present on the port.



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**NOTE:**

The SFP+ port LEDs and QSFP+ port LEDs are not affected by the port mode switching button on your switch. For more information about the port mode switching button, see the installation guide of the switch.

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## Installing and removing the interface module

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**⚠ CAUTION:**

- Before you install or remove the interface module, wear an ESD wrist strap and make sure the strap makes good skin contact and is reliably grounded.
  - To avoid device damage, do not use excessive force when you install or remove the interface module.
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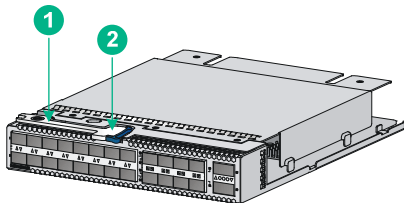
### Installing the interface module

Before you install the interface module, remove the filler panel (if any) from the target slot. Keep the removed filler panel for future use.

To install the interface module:

1. Unpack the interface module.

**Figure 2 LSWM124XG2QFC interface module**



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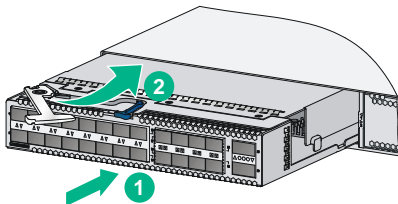
(1) Ejector lever

(2) Latch

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2. Press the latch on the interface module to release the ejector lever.
3. Insert the interface module slowly into the slot along the guide rails, as shown by callout 1 in [Figure 3](#).
4. Rotate inward the ejector lever until the latch locks the ejector lever in place, as shown by callout 2 in [Figure 3](#).

**Figure 3 Installing the LSWM124XG2QFC interface module**



## Removing the interface module

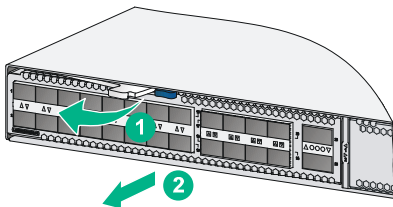
### **△ CAUTION:**

- Before you remove the interface module, remove the cable from it to avoid cable damage.
- If you are not to install a new interface module, install a filler panel in the slot to prevent dust and ensure good ventilation in the device.

To remove the interface module:

1. Prepare an anti-static bag.
2. Press the latch to release the ejector lever.
3. Rotate outward the ejector lever, as shown by callout 1 in [Figure 4](#).
4. Pull the interface module slowly out of the interface module slot, as shown by callout 2 in [Figure 4](#).
5. Place the removed interface module in the anti-static bag.

**Figure 4 Removing the LSWM124XG2QFC interface module**



## Installing and removing SFP, SFP+, and QSFP+ transceiver modules and SFP+ and QSFP+ cables

For information about installing and removing SFP/SFP+ transceiver modules and SFP+ cables, see *HPE Transceiver Modules and Network Cables Installation Guide*.

For information about installing and removing QSFP+ transceiver modules and QSFP+ cables, see *HPE Transceiver Modules and Network Cables Installation Guide*.

### Verifying the installation

After the installation is complete, identify whether the interface module is operating correctly.

If the interface module fails to operate correctly, perform the following steps:

1. Reinstall it following the installation procedures described in this document.
2. If the problem persists, contact Hewlett Packard Enterprise Support.

### Documentation

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

[www.hpe.com/support/hpesc](http://www.hpe.com/support/hpesc)



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