

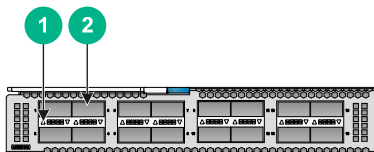
# H3C LSWM116Q interface card user manual-6PW104

## Introduction

### Overview

The LSWM116Q interface card provides 16 QSFP+ ports.

Figure 1 Front panel



(1) QSFP+ port LED

(2) QSFP+ port

### QSFP+ ports

Table 1 and Table 2 describe QSFP+ transceiver modules and Table 3 describes QSFP+ cables available for the QSFP+ ports on the card.

Table 1 QSFP+ transceiver modules available for the QSFP+ ports (1)

QSFP+ transceiver module	Central wavelength (nm)	Connector
QSFP-40G-SR4-M850	850	MPO (PC polished, 12-fiber)
QSFP-40G-CSR4-MM850	850	MPO (PC polished, 12-fiber)
QSFP-40G-LR4-PS M1310	1310	MPO (APC polished, 12-fiber)
QSFP-40G-BIDI-SR-MM850	850	LC

QSFP+ transceiver module	Central wavelength (nm)	Connector
QSFP-40G-LR4-W DM1300	Four lanes: <ul style="list-style-type: none"> <li>• 1271</li> <li>• 1291</li> <li>• 1311</li> <li>• 1331</li> </ul>	LC
QSFP-40G-LR4L-W DM1300	Four lanes: <ul style="list-style-type: none"> <li>• 1271</li> <li>• 1291</li> <li>• 1311</li> <li>• 1331</li> </ul>	LC

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

QSFP+ transceiver module	Cable/fiber diameter ( $\mu\text{m}$ )	Modal bandwidth (MHz $\times$ km)	Max transmission distance
QSFP-40G-SR4-MM850	Multi-mode, 50/125	2000	100 m (328.08 ft)
		4700	150 m (492.12 ft)
QSFP-40G-CS R4-MM850	Multi-mode, 50/125	2000	300 m (984.25 ft)
		4700	400 m (1312.33 ft)
QSFP-40G-LR4-PSM1310	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-BIDI-SR-MM850	Multi-mode, 50/125	2000	100 m (328.08 ft)
		4700	150 m (492.12 ft)
QSFP-40G-LR4-WDM1300	Single-mode, 9/125	N/A	10 km (6.21 miles)

QSFP+ transceiver module	Cable/fiber diameter ( $\mu\text{m}$ )	Modal bandwidth (MHz $\times$ km)	Max transmission distance
QSFP-40G-LR4 L-WDM1300	Single-mode, 9/125	N/A	2 km (1.24 miles)

**Table 3 QSFP+ cables available for the QSFP+ ports**

QSFP+ cable	Cable length	Data rate
<b>QSFP+ copper cable</b>		
LSWM1QSTK0	1 m (3.28 ft)	40 Gbps
LSWM1QSTK1	3 m (9.84 ft)	
LSWM1QSTK2	5 m (16.40 ft)	
<b>QSFP+ fiber cable</b>		
QSFP-40G-D-AOC-7M	7 m (22.97 ft)	40 Gbps
QSFP-40G-D-AOC-10M	10 m (32.81 ft)	
QSFP-40G-D-AOC-20M	20 m (65.62 ft)	

**NOTE:**

- As a best practice, use H3C transceiver modules and cables for the interface card.
- The transceiver module and cable types supported by an interface card vary by device model. For more information, see the installation guide or contact H3C Support or marketing staff.

For more information about H3C transceiver modules and cables, see *H3C Transceiver Modules User Guide* at [www.h3c.com](http://www.h3c.com).

## LEDs

Table 4 describes QSFP+ port LEDs on the front panel.

**Table 4 QSFP+ port LED description**

LED status	Description
Steady green	A transceiver module is installed in the port. The port is operating at 40 Gbps, and a link is present on the port.
Flashing green	The port is sending or receiving data at 40 Gbps.
Off	No transceiver module is installed in the port, or no link is present on the port.

## Installing and removing the card

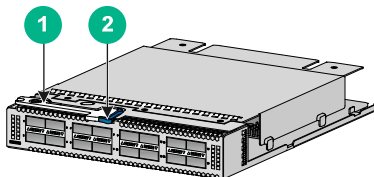
### △ CAUTION:

- Before you install or remove the card, 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 card.
- The LSWM116Q interface card is hot swappable. However, do not install or remove it during the startup of the switch.

### Installing the card

1. Remove the filler panel (if any) from the target slot.  
Keep the removed filler panel secure for future use.
2. Unpack the interface card.

**Figure 2 LSWM116Q interface card**

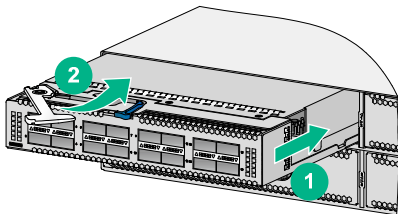


(1) Ejector lever

(2) Latch

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

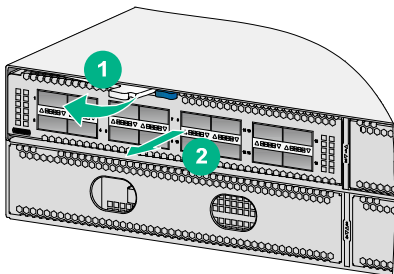
**Figure 3 Installing an LSWM116Q interface card**



## Removing the card

1. Prepare an anti-static bag.
2. Remove the cables from the card.
3. Press the latch to release the ejector lever
4. Rotate outward the ejector lever as shown by callout 1 in [Figure 4](#).
5. Pull out the interface card slowly out of the interface card slot, as shown by callout 2 in [Figure 4](#).
6. Place the removed interface card in the anti-static bag.
7. If you are not to install a new card, install a filler panel in the slot to prevent dust and ensure good ventilation in the device.

**Figure 4 Removing an LSWM116Q interface card**



## **Installing and removing QSFP+ transceiver modules or cables**

For information about installing and removing QSFP+ transceiver modules and cables, see *H3C Transceiver Modules and Network Cables Installation Guide* at [www.h3c.com](http://www.h3c.com).

### **Verifying the installation**

After the installation is complete, determine whether the card is operating correctly.

If the card fails to operate correctly, perform the following steps:

1. Reinstall the card following the installation procedures described in this document.
2. If the problem persists, contact H3C Support.

## **Technical support**

New H3C Technologies Co., Ltd. provides customers with comprehensive technical support and service. If you purchase the products from the sales agent of New H3C Technologies Co., Ltd., please contact our sales agent or technical personnel.

Website: <http://www.h3c.com>

BOM: 3101A0KJ