

H3C LSWM18CQ interface card user manual-6PW108

About the LSWM18CQ interface card

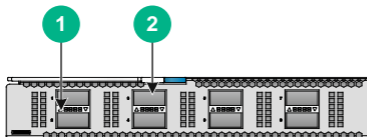
Important information

The LSWM18CQ interface card is applicable to multiple H3C switch models. For the interface card compatibility with switches, contact H3C Support or marketing staff.

Front panel

The LSWM18CQ interface card provides eight QSFP28 ports.

Figure 1 Front panel



(1) QSFP28 port LED

(2) QSFP28 port

Ports

Important information

- As a best practice, use H3C transceiver modules and cables for the interface cards.
- The transceiver module and cable types supported by the LSWM18CQ interface card vary by device model. For more information, see the installation guide or hardware reference for the device, or contact H3C Support or marketing staff.
- The restrictions and guidelines for using the LSWM18CQ interface card vary by device model. For more information, see the installation guide or hardware reference for the device.
- For more information about H3C transceiver modules and cables, see *H3C Transceiver Modules User Guide* at www.h3c.com.

QSFP28 ports

You can install the following transceiver modules and cables in the QSFP28 ports on the card:

- QSFP28 transceiver modules described in [Table 1](#) and [Table 2](#)
- QSFP28 cables in [Table 3](#)
- QSFP28 to SFP28 cables in [Table 4](#)
- QSFP+ transceiver modules in [Table 5](#) and [Table 6](#)
- QSFP+ cables in [Table 7](#)
- QSFP+ to SFP+ cables in [Table 8](#)

Table 1 QSFP28 transceiver modules available for the QSFP28 ports (1)

QSFP28 transceiver module	Central wavelength (nm)	Connector
QSFP-100G-ER4L-WDM1300	Four lanes: <ul style="list-style-type: none">• 1294.53 to 1296.59• 1299.02 to 1301.09• 1303.54 to 1305.63• 1308.09 to 1310.19	LC
QSFP-100G-SR4-MM850	850	MPO (PC polished, 12-fiber)
QSFP-100G-PSM4-SM1310	1295 to 1325	MPO (APC polished, 12-fiber)
QSFP-100G-LR4-WDM1300	Four lanes: <ul style="list-style-type: none">• 1295• 1300• 1304• 1309	LC

QSFP28 transceiver module	Central wavelength (nm)	Connector
QSFP-100G-LR4L-WDM 1300	Four lanes: <ul style="list-style-type: none"> • 1264.5 to 1277.5 • 1284.5 to 1297.5 • 1304.5 to 1317.5 • 1324.5 to 1337.5 	LC
QSFP-100G-SWDM4-MM 850	Four lanes: <ul style="list-style-type: none"> • 850 • 880 • 910 • 940 	LC

Table 2 QSFP28 transceiver modules available for the QSFP28 ports (2)

QSFP+ transceiver module	Cable/fiber diameter (μm)	Modal bandwidth (MHz \times km)	Max transmission distance
QSFP-100G-ER 4L-WDM1300	Single-mode, 9/125	N/A	40 km (24.85 miles)
QSFP-100G-SR 4-MM850	Multi-mode, 50/125	2000	70 m (229.66 ft)
		4700	100 m (328.08 ft)
QSFP-100G-PS M4-SM1310	Single-mode, 9/125	N/A	500 m (1640.42 ft)
QSFP-100G-LR 4-WDM1300	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-100G-LR 4L-WDM1300	Single-mode, 9/125	N/A	2 km (1.24 miles)
QSFP-100G-S WDM4-MM850	Multi-mode, 50/125	2000	75 m (246.06 ft)
		4700	100 m (328.08 ft)

Table 3 QSFP28 cables available for the QSFP28 ports

Cable model	Cable length	Data rate
QSFP28 copper cable		
QSFP-100G-D-CAB-1M	1 m (3.28 ft)	100 Gbps
QSFP-100G-D-CAB-3M	3 m (9.84 ft)	
QSFP-100G-D-CAB-5M	5 m (16.40 ft)	
QSFP28 fiber cable		
QSFP-100G-D-AOC-7M	7 m (22.97 ft)	100 Gbps
QSFP-100G-D-AOC-10M	10 m (32.81 ft)	
QSFP-100G-D-AOC-20M	20 m (65.62 ft)	

Table 4 QSFP28 to SFP28 cables available for the QSFP28 ports

QSFP28 to SFP28 cable	Cable length	Data rate
QSFP-100G-4SFP-25G-CAB-1M	1 m (3.28 ft)	100 Gbps
QSFP-100G-4SFP-25G-CAB-3M	3 m (9.84 ft)	

Table 5 QSFP+ transceiver modules available for the QSFP28 ports (1)

QSFP+ transceiver module	Central wavelength (nm)	Connector
QSFP-40G-SR4-MM850	850	MPO (PC polished, 12-fiber)
QSFP-40G-CSR4-MM850	850	MPO (PC polished, 12-fiber)
QSFP-40G-LR4-PSM1310	1310	MPO (APC polished, 12-fiber)

QSFP+ transceiver module	Central wavelength (nm)	Connector
QSFP-40G-BIDI-SR-MM850	850	LC
QSFP-40G-LR4-WDM1300	Four lanes: <ul style="list-style-type: none"> • 1271 • 1291 • 1311 • 1331 	LC
QSFP-40G-LR4L-WDM1300	Four lanes: <ul style="list-style-type: none"> • 1271 • 1291 • 1311 • 1331 	LC

Table 6 QSFP+ transceiver modules available for the QSFP28 ports (2)

QSFP+ transceiver module	Cable/fiber diameter (μm)	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-CSR4-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 (μm)	Modal bandwidth (MHz \times km)	Max transmission distance
QSFP-40G-LR 4L-WDM1300	Single-mode, 9/125	N/A	2 km (1.24 miles)

Table 7 QSFP+ cables available for the QSFP28 ports

QSFP+ cable	Cable length	Data rate
QSFP+ copper cable		
LSWM1QSTK0	1 m (3.28 ft)	40 Gbps
LSWM1QSTK1	3 m (9.84 ft)	
LSWM1QSTK2	5 m (16.40 ft)	
QSFP+ fiber cable		
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)	

Table 8 QSFP+ to SFP+ cables available for the QSFP28 ports

QSFP+ to SFP+ cable	Cable length	Data rate
LSWM1QSTK3	1 m (3.28 ft)	40 Gbps
LSWM1QSTK4	3 m (9.84 ft)	
LSWM1QSTK5	5 m (16.40 ft)	

LEDs

Important information

The indications of the LEDs on the LSWM18CQ interface card vary by device model. For more information, see the installation guide or hardware reference for the device.

QSFP28 port LEDs

Table 9 describes QSFP28 port LEDs on the front panel.

Table 9 QSFP28 port LED description

LED status	Description
Steady green	A transceiver module is installed in the port. The port is operating at 100 Gbps, and a link is present on the port.
Flashing green	The port is sending or receiving data at 100 Gbps.
Steady yellow	A transceiver module is installed in the port. The port is operating at 10/25/40 Gbps, and a link is present on the port.
Flashing yellow (3 Hz)	The port is sending or receiving data at 10/25/40 Gbps.
Off	No transceiver module is installed in the port, or no link is present on the port.

Installing and removing the card

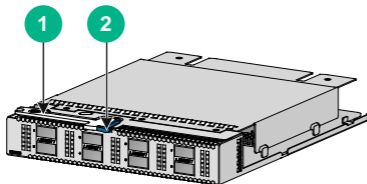
△ CAUTION:

- 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 LSWM18CQ 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 LSWM18CQ interface card

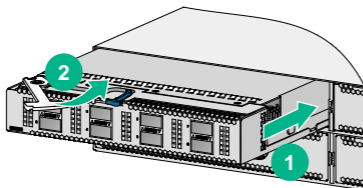


(1) Ejector lever

(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.

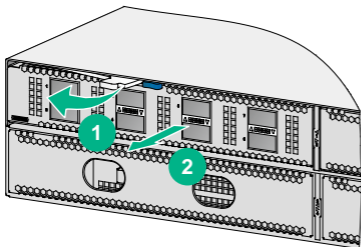
Figure 3 Installing an LSWM18CQ interface card



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 LSWM18CQ interface card



Installing and removing QSFP28/QSFP+ transceiver modules and cables

For information about installing and removing QSFP28 transceiver modules, QSFP28 cables, QSFP28 to SFP28 cables, QSFP+ transceiver modules, QSFP+ cables, and QSFP+ to SFP+ cables, see *H3C Transceiver Modules and Network Cables Installation Guide* at www.h3c.com.

Verifying the installation

After the installation is complete, determine whether the interface 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: 3101A0KH