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## Overview

40GBase-LR4 Optical Transceiver, QSFP+,40GE, Single-mode Module (1310nm,10km, LC).

## Quick Specification

Table 1 shows the Quick Specs.

Model	QSFP-40G-LR4
Part Number	02310MHS
Description	40GBase-LR4 Optical Transceiver, QSFP+,40GE, Single-mode Module (1310nm,10km, LC)
Form Type	QSFP+
Wavelength	1310nm
Interface	LC duplex
Cable Type	SMF
CDR Support	Yes
TX Power	-7~-2.3dBm
Commercial Temperature Range	0 to 70°C (32 to 158°F)
Max Data Rate	44.6Gbps
Max Cable Distance*	10km
Optical Components	DFB CWDM
DOM Support	Yes
Protocols	OTN OTU3, 40G Ethernet, Infini band, Fiber Channel, SATA/SAS3
Receiver Sensitivity	<-11.5dBm

## The Supported Switches

Figure 1. QSFP-40G-LR4 can be installed in the switch's SFP slot.



# QSFP-40G-LR4 (02310MHS)

## Datasheet



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### Compare to Similar Items

Table 2 shows the comparison of QSFP-40G-ER4, QSFP-40G-iSR4 and QSFP-40G-LR4.

Model	QSFP-40G-ER4	QSFP-40G-iSR4	QSFP-40G-LR4
Part Number	02311BKT	02310MHR	02310MHS
Description	40GBase-ER4 Optical Transceiver, QSFP+,40G, Single-mode Module (1310nm,40km, LC)	40GBase-iSR4 Optical Transceiver, QSFP+,40G, Multimode (850nm,0.15km, MPO) (Connect to four SFP+ Optical Transceiver)	40GBase-LR4 Optical Transceiver, QSFP+,40GE, Single-mode Module (1310nm,10km, LC)
Form Type	QSFP+	QSFP+	QSFP+
Wavelength	1310nm	850nm	1310nm
Max Data Rate	44.6Gbps	40Gbps	44.6Gbps
Max Cable Distance*	40km**	150m**	10km

### Get more information:

Do you have any question about the QSFP-40G-LR4 (02310MHS) ?

Contact us now via email: [info@hi-network.com](mailto:info@hi-network.com)

### Specification:

Connector type	LC
Optical fiber type	SMF
Form factor	QSFP+
Transmission rate [bit/s]	40G
Target transmission distance [km]	Single-mode fiber (G.652) (with diameter of 9 μm): 10 km
Application standard/Type	40GBASE-LR4
Working case temperature [°C(°F)]	0°C to 70°C (32°F to 158°F)
Type of the end face of the fiber ceramic ferrule	PC or UPC
Center wavelength [nm]	1271, 1291, 1311, 1331
Overload power (AVG) [dBm]	3.3
Maximum Tx optical power (AVG) [dBm]	2.3
Minimum Tx optical power (AVG) [dBm]	-7
Minimum extinction ratio [dB]	3.5
Rx sensitivity (OMA) [dBm]	-11.5

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