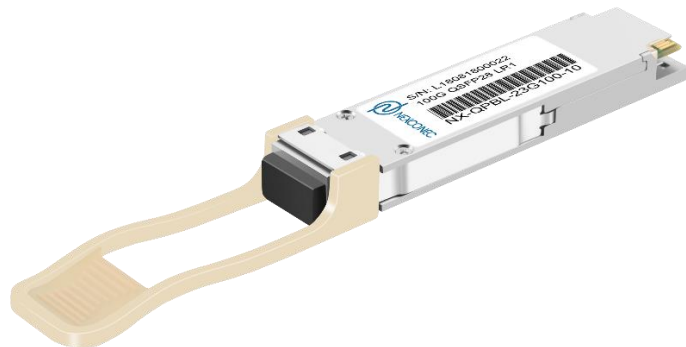


## 100G QSFP28 LR1 BiDi TRANSCEIVER



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Nexconec QSFP28 LR1 BiDi Transceivers are designed for 100G Ethernet 100GBASE-LR1 links over duplex single mode fibers, support transmission distance up to 30km using wavelengths (1270nm, 1330nm, 1304nm and 1309nm).

### FEATURES

- ✓ Supports 106.25Gb/s PAM4
- ✓ Digital Diagnostics Monitoring Interface
- ✓ Built-in 100G PAM4 DSP
- ✓ Up to 30km reach over SMF
- ✓ Hot Pluggable
- ✓ BiDi LC receptacle
- ✓ Commercial operating case temperature range: 0~ 70°C
- ✓ RoHS-6 Compliant
- ✓ Power dissipation < 4.5 W
- ✓ TDECQ<3.9dB

### APPLICATIONS

- ✓ 100G Ethernet
- ✓ Data center
- ✓ InfiniBand QDR
- ✓ Fiber channel

## STANDARDS

- ✓ 100G Lambda MSA 100G-ER1 specification
- ✓ QSFP MSA compliant
- ✓ Compliant to SFF-8636 Rev2.10a

## SPECIFICATIONS

Part Number	Package	Data Rate	Wavelength	Reach	TX	RX	Connector	TX Power	RX Sensitivity
NX-QPBL-23G100-10-xx	QSFP28	100G	1270nm	10km	DFP	PIN	LC	-1.4~4.5dBm	-6.1dBm
NX-QPBL-32G100-10-xx	QSFP28	100G	1330nm	10km	DFP	PIN	LC	-1.4~4.5dBm	-6.1dBm
NX-QPBL-23G100-20-xx	QSFP28	100G	1291nm	20km	EML	PIN	LC	0~6.6dBm	-7.6dBm
NX-QPBL-32G100-20-xx	QSFP28	100G	1311nm	20km	EML	PIN	LC	0~6.6dBm	-7.6dBm
NX-QPBL-23G100-30-xx	QSFP28	100G	1304nm	30km	EML	APD	LC	0~5.6dBm	-12.5dBm
NX-QPBL-32G100-30-xx	QSFP28	100G	1309nm	30km	EML	APD	LC	0~5.6dBm	-12.5dBm

## ORDER INFORMATION

Part Number	Product Description
<b>NX-QPBL-23G100-10-xx</b>	QSFP28 100G LR1 BiDi Transceiver LC Simplex SM, (Tx1270nm/Rx1330nm) 10km
<b>NX-QPBL-32G100-10-xx</b>	QSFP28 100G LR1 BiDi Transceiver LC Simplex SM, (Tx1330nm/Rx1270nm) 10km
<b>NX-QPBL-23G100-20-xx</b>	QSFP28 100G LR1 BiDi Transceiver LC Simplex SM, (Tx1291nm/Rx1311nm) 20km
<b>NX-QPBL-32G100-20-xx</b>	QSFP28 100G LR1 BiDi Transceiver LC Simplex SM, (Tx1311nm/Rx1291nm) 20km
<b>NX-QPBL-23G100-30-xx</b>	QSFP28 100G ER1 BiDi Transceiver LC Simplex SM, (Tx1304nm/Rx1309nm) 30km
<b>NX-QPBL-32G100-30-xx</b>	QSFP28 100G ER1 BiDi Transceiver LC Simplex SM, (Tx1309nm/Rx1304nm) 30km

### Notes

1. Where (10 = 10km, 20 = 20km) denotes reach in kilometers.

2. Where "xx" denotes compatibility short codes. (xx = CI for Cisco, xx = DL for DELL etc.)

3. Compatible Short codes are as follows:

<b>Short codes</b>	<b>Value</b>		<b>Short codes</b>	<b>Value</b>
CI	Cisco		HW	Huawei
ML	Mellanox		DK	D-Link
MK	Mikrotik		HC	H3C
JP	Juniper		CN	Ciena
BR	Brocade		EC	Edge-Core
DL	DELL		AL	Alcatel-Lucent
FT	Fortinet			

