

## 100G QSFP28 ER4 LITE TRANSCEIVER



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Nexconec QSFP28 ER4 Lite Transceivers are designed for 100G Ethernet 100GBASE-ER4, 4WDM-40 and OTN OTU4 links over duplex single mode fibers, support transmission distance up to 40km without FEC and 40km with FEC using LWDM wavelengths (1295.56nm, 1300.05nm, 1304.58nm, 1309.14nm).

### FEATURES

- ✓ Hot-pluggable QSFP28 form factor
- ✓ Compliant with QSFP MSA standard, IEEE 802.3ba 100GBASE-ER4 standard
- ✓ Compliant with 100G 4WDM-40 MSA standard, OTN OTU4 standard
- ✓ 4 channels full-duplex transceiver module; Supports 100Gbps aggregate bit rate
- ✓ 4 channels EML LAN-WDM cooling transmitter; 4 channels APD ROSA
- ✓ Internal CDR circuits on both receiver and transmitter channels
- ✓ Maximum link length of up to 80km on SMF with or without FEC
- ✓ Duplex LC receptacles; Built-in digital diagnostic functions
- ✓ 3.8W maximum power dissipation; Single 3.3V power supply
- ✓ Operating case temperature range: 0 to 70°C
- ✓ RoHS-6 compliant (lead free)

### APPLICATIONS

- ✓ IEEE 802.3ba 100GBASE-ER4 ; 100G 4WDM-40 ; OTU4

**SPECIFICATIONS**

Part Number	Package	Data Rate	Wavelength	Reach	TX	RX	Connector	TX Power	RX Sensitivity
NX-QP-Q3G100-30-xx	QSFP28	100G	LWDM	30km	EML LWDM	APD	LC	-2.9~4.5dBm	-16.6dBm
NX-QP-Q3G100-40-xx	QSFP28	100G	LWDM	40km	EML LWDM	SOA+ PIN	LC	-2.5~4.5dBm	-18.5dBm
NX-QP-Q3G100-80-xx	QSFP28	100G	LWDM	80km	EML LWDM	SOA+ PIN	LC	-2.0~6.5dBm	-28.0dBm

**ORDER INFORMATION**

Part Number	Product Description
<b>NX-QP-Q3G100-30-xx</b>	QSFP28 ER4 Lite Transceiver LC Duplex LWDM 30km
<b>NX-QP-Q3G100-40-xx</b>	QSFP28 ER4 Lite Transceiver LC Duplex LWDM 40km
<b>NX-QP-Q3G100-80-xx</b>	QSFP28 ZR4 Lite Transceiver LC Duplex LWDM 80km

**Notes**

- Where (30 = 30km, 40 = 40km) denotes reach in kilometers.
- Where "xx" denotes compatibility short codes. (xx = CI for Cisco, xx = DL for DELL etc.)
- Compatible Short codes are as follows:

Short codes	Value	Short codes	Value
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		