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

✉ sales@nexconec.com   🌐 nexconec.com

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
NX-QP-Q3G100-30-xx	QSFP28 ER4 Lite Transceiver LC Duplex LWDM 30km
NX-QP-Q3G100-40-xx	QSFP28 ER4 Lite Transceiver LC Duplex LWDM 40km
NX-QP-Q3G100-80-xx	QSFP28 ZR4 Lite Transceiver LC Duplex LWDM 80km

Notes

1. *Where (30 = 30km, 40 = 40km) 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:*

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			