



Applications

100GbE multiple channel transmissions using O-band DWDM wavelengths

Features

- Single lambda 100 Gbps transmission
- O-band DWDM with 200 GHz channel spacing
- Aligned to 800 GHz spacing LAN-WDM grid
- Compliant with QSFP28 MSA SFF-8636
- Up to 25 km over G.652 SMF
- QSFP28 MSA digital monitoring functions
- PAM4 optical signal with integrated FEC
- 4x25.78 Gbps CAUI-4 host interface
- Safety Certification: TUV/UL/FDA*¹
- Duplex LC connector
- Operating Case Temperature Range 0°C to 70°C
- RoHS compliant

Description

XenOpt's XQDxx9-25LY series single mode transceiver module is designed for multiple channel 100GbE transmissions for up to 25 km distance over standard G.652 single mode optical fibers (SMF). The transmitter side converts the multi-lane host electrical signals to a single-lane PAM4 optical signal. The module's optical interface utilizes a single wavelength in the O-band with wavelengths aligned to the LAN-WDM grid with 200 GHz channel spacing. The module is Laser Class 1 compliant according to International Safety Standard IEC-60825. The receiver section uses a wideband APD detector and is WDM channel independent. Digital diagnostics functions are available via the I2C interface as specified by QSFP28.

xx-Channel refers to the following table

xx	Lane	Part no.	Frequency (THz)	Center Wavelength (nm)
N4	L-4	XQDN49-25LY	231.4	1295.56
N3	L-3	XQDN39-25LY	231.2	1296.68
N2	L-2	XQDN29-25LY	231.0	1297.80
N1	L-1	XQDN19-25LY	230.8	1298.93
00	L0	XQD009-25LY	230.6	1300.05
01	L1	XQD019-25LY	230.4	1301.18
02	L2	XQD029-25LY	230.2	1302.31
03	L3	XQD039-25LY	230.0	1303.45
04	L4	XQD049-25LY	229.8	1304.58
05	L5	XQD059-25LY	229.6	1305.72
06	L6	XQD069-25LY	229.4	1306.85
07	L7	XQD079-25LY	229.2	1308.00
08	L8	XQD089-25LY	229.0	1309.14
09	L9	XQD099-25LY	228.8	1310.28
10	L10	XQD109-25LY	228.6	1311.43
11	L11	XQD119-25LY	228.4	1312.58

Ordering information²

Part number	Product Description
XQDxx9-25LY ³	QSFP28 DWDM, xx ∈ O-Band, SMF, 100G, 25 km, LC, 0°C~70°C, DDMI

Notes

¹ For the latest certification information, please check with Xenopt

² For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.

Please specify any compatibility requirements at time of ordering. Standard MSA compatible pluggable components may not work or some function of these components may not be available in devices that require customized compatible devices. Pluggable components compatible with one type of communications equipment may not work in other type of communications equipment.

³ xx refers to O-Band DWDM Wavelength range as CW-WDM MSA specified, please refer to the table for detailed center wavelength information.

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by XenOpt before they become applicable to any particular order or contract. In accordance with the XenOpt policy of continuous improvement specifications may change without notice.

The product image is only for reference purpose

The publication of information in this data sheet does not imply freedom from patent or other protective rights of XenOpt or others. Further details are available from any XenOpt sales representative.

To find out more, please contact: