

Transceivers & Multiplexers

O-Band Solutions Guide

v1.0

QSFP28 O-Band WDM transceiver solutions

Fueled by the thirst for bandwidth, service providers and network operators are seeking drop-in solutions to seamlessly upgrade existing passive wavelength division multiplexed network infrastructure. This is especially true at the network edge that lacks the network density require to cost-effectively deploy coherent or open line systems.

Now, a new solution to aid 100G multi-wavelength WDM networks is here. By leveraging the dispersion tolerant O-Band, the new ProLabs QSFP28 100G O-Band transceiver solutions create high-speed connections up to 40km back-to-back and over 20km through an eight-channel passive multiplexer – all while helping reduce deployment costs by using your currently installed switches & routers.

Features & Benefits

- ✓ O-Band WDM available in eight 400 GHz channels (295, 297, 300, 302, 304, 306, 309, & 311).
- ✓ Reach 100G signals up to 40km back-to-back, and 20km+ through a multiplexer (mux), without costly amplification or dispersion compensation.
- ✓ PAM4 single lambda 106.25Gbps aggregate data rate.
- ✓ Coded for full compatibility in Cisco, Arista, Juniper, & industry-standard environments.
- ✓ Avoid long lead times and backorders with our U.S.- & U.K.-based stock and fast shipping.
- ✓ U.S. & U.K. originated, coded, and tested optics solve your network challenges without hassle.

Maximize existing infrastructure for extended-range 100G with QSFP28 O-Band transceivers:

OW295 configuration shown below for reference. OW297, OW300, OW302, OW304, OW306, OW309, & OW311 also available.



MSA and TAA 100GBase-OWDM QSFP28 Transceiver O-Band Channel OW295 400GHz (SMF, 1295.56nm, 20km, LC, DOM, 5 to 80C)

SKU: QSFP-100GB-129556-20-E-C



Juniper Networks® Compatible TAA 100GBase-OWDM QSFP28 Transceiver O-Band Channel OW295 400GHz (SMF, 1295.56nm, 20km, LC, DOM, 5 to 80C)

SKU: QSFP-100GB-129556-20-E-J-C



Arista Networks® Compatible TAA 100GBase-OWDM QSFP28 Transceiver O-Band Channel OW295 400GHz (SMF, 1295.56nm, 20km, LC, DOM, 5 to 80C)

SKU: QSFP-100GB-129556-20-E-AR-C



Cisco® Compatible TAA 100GBase-OWDM QSFP28 Transceiver O-Band Channel OW295 400GHz (SMF, 1295.56nm, 20km, LC, DOM, 5 to 80C)

SKU: QSFP-100GB-129556-20-E-C-C

O-Band Passive Multiplexer

Features & Benefits

- ✓ First multiplexing O-Band up to 8 channels to provide a full solution for 100G PAM4 optics.
- ✓ Reach up to 100G to 40km without amplification & dispersion compensation.
- ✓ Supported from transceiver to mux & mux to transceiver.
- ✓ Only third-party optic supplier to provide end-to-end solutions.
- ✓ Avoid long lead times and backorders with our U.S. & U.K. based stock and fast shipping.
- ✓ U.S. & U.K. originated, coded, and tested optics solve your practical network challenges without hassle.



8Ch O-Band WDM Mux and Demux (Duplex) 1W LGX Cartridge, Wavelength 1295.56nm through 1311.43nm, LC/UPC Adapters

SKU: C-OWDM-MUXDL8-295-311

Contact us today to maximize the performance of your current & future fiber infrastructure!

Contact us

About ProLabs

ProLabs, an Amphenol company, is a leading provider of optical networking solutions. For over two decades, it has delivered optical connectivity solutions that give customers freedom, choice, and seamless interoperability. It serves a diverse range of industries including enterprises, governments, and the largest worldwide service providers.

By championing higher standards for technology and service, ProLabs is changing the mindset of data centers and service providers the world over. It supplies solutions that are 100% compatible in form and functionality across 100 OEM manufacturers, covering more than 20,000 systems and platforms.



North America

sales@prolabs.com

+1 952 852 0252

EMEA

salesemea@prolabs.com

+44 1285 719 600

For more information, please visit www.prolabs.com