

100G QSFP28 DWDM Pluggable Optical Transceiver

Features

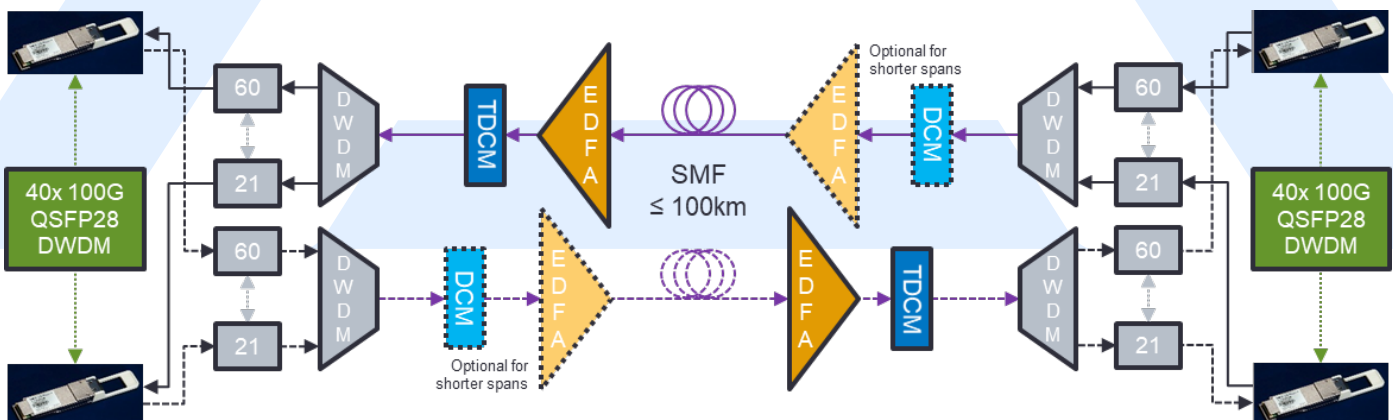
- Single-wavelength 100 Gbps transmission
- nCP4™ Silicon Photonics Optical Engine
- Fixed wavelengths on 100GHz DWDM grid
- Compatible with standard 100GHz DWDM filters
- Up to 100km over SMF (with DCM and EDFA)
- Duplex LC connector
- PAM4 optical signal with integrated FEC
- 4x25.78 Gbps CAUI-4 host interface
- Compliant with QSFP28 MSA SFF-8636
- QSFP28 MSA digital monitoring functions



Product Description

Alpine Optoelectronics' single-wavelength 100G QSFP28 DWDM pluggable optical transceivers, enabled by Alpine's patented nCP4™ Silicon Photonics Optical Engine platform, are designed for multiple channel 100GbE transmission up to 100km distance over standard G.652 single mode optical fibers (SMF). For short distances (< 2km) dispersion compensation is not required. For longer distances, EDFA and DCM are required to compensate the fiber link loss and fiber dispersion.

Application Case 1: 4T Duplex Fiber Link

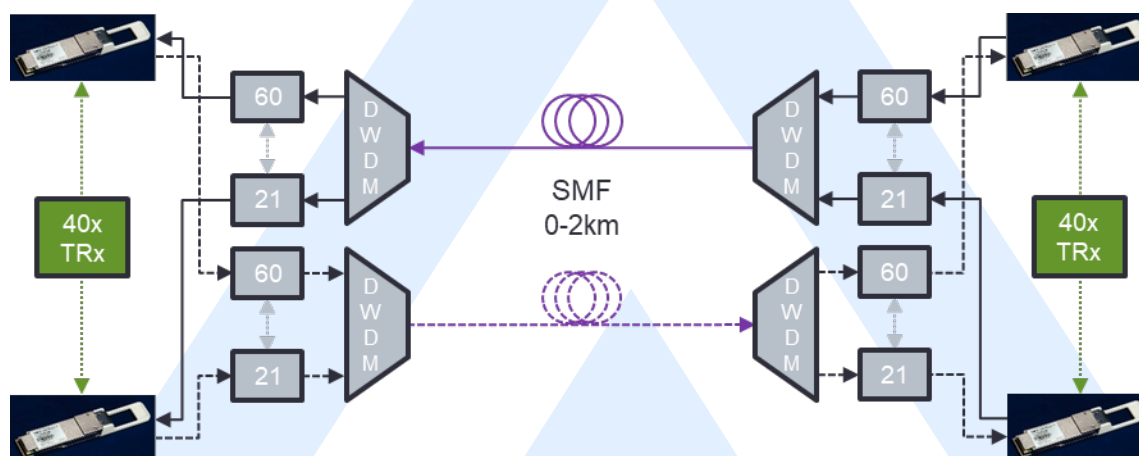


The 100G QSFP28 DWDM module supports up to 25dB power budget with dispersion compensation and amplification. With 40-channels available, 4Tbps links up to 100km are possible.

Product Advantages

- Lower cost offers significant savings over Coherent 100G DWDM modules
- Low latency is favorable for delay sensitive applications
- Low power consumption is compatible with common 100GE switches and routers
- QSFP28 form-factor plugs directly into standard 100GE switches (including white-box switches)
- Compatible with standard 100GHz spacing DWDM Mux/Demux filters
- Supports single-fiber Bi-Directional transmission
- 0 to 2km passive fiber links at greatly reduced DWDM system cost – EDFA & DCM not required

Application Case 2: 4T Duplex Passive Fiber Link



Ordering Information

Part Number	Data Rate	Applications	Case Temperature Range	Standard DWDM 40 Channels
AXZRPQ11C5D-XX	100Gbps	Up to 100km With EDFA & DCM	0°C to 70°C	XX = 21 to 60 1560.61nm to 1529.55nm

Additional 8 channels C15 to C20 and C61 to C62 are available as customized wavelengths, please contact Alpine Optoelectronics.

Alpine Optoelectronics Inc.
 3191 Laurelview Court
 Fremont, CA 94538
sales@alpineoptoelectronics.com
 +1-408-338-0587

