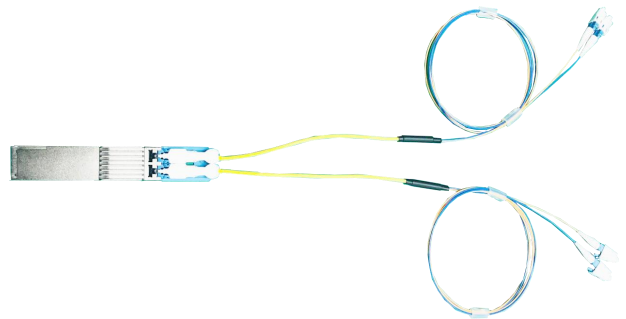
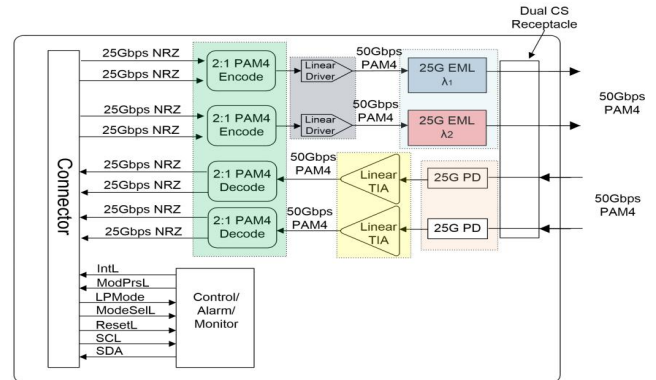


QSFP28 100G DWDM Dual CS adaptor Transceiver

Product Function

- ◆ Hot pluggable QSFP28 MSA form factor
- ◆ Up to 80km reach for G.652 SMF with transport white box
- ◆ Single +3.3V power supply
- ◆ Temperature Range 0 to 70°C
- ◆ Transmitter: Cooled EML 2*27.5Gbaud/s DWDM TOSA
- ◆ Receiver: 2*27.5Gbaud/s Pin-PD ROSA
- ◆ 4*25G CAUI4 electrical interface
- ◆ Integrated SFEC with high coding gain
- ◆ PAM4 modulation format on 100GHz ITU DWDM wavelength grid compatible
- ◆ Dual CS adaptor
- ◆ Compatible with RoHS6

Transceiver Block Diagram































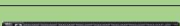






QSFP28 100G DWDM CS Transceiver

Ordering information

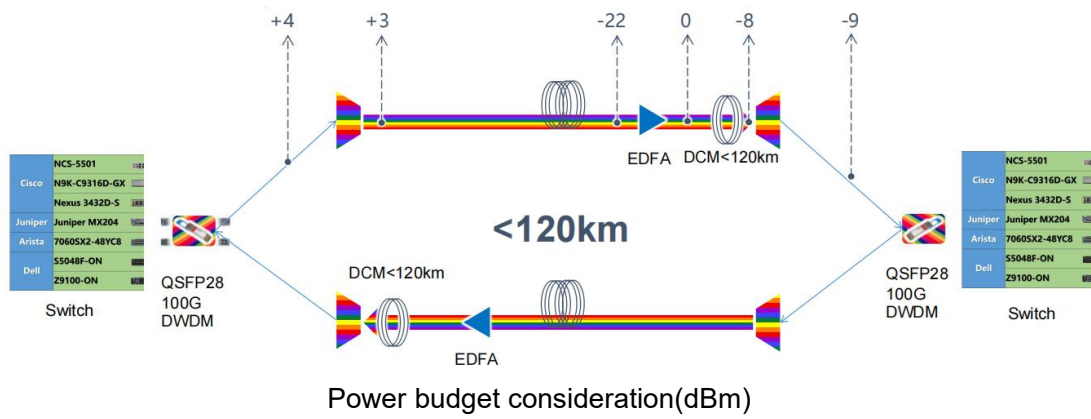
| Part No | Specifications | | | | | | |
|--------------|----------------|--------------|-------------------|-------------|---------------------|--------|--------|
| | Package | Data rate | Tx | Pout | Rx Sen. | Top | Others |
| RQ-100GD-CXX | QSFP28 | 103.125 Gbps | Cooled EAM DFB-LD | -1 ~ +4 dBm | -12.5 dBm @BER 4E-3 | 0~70°C | DDM |

Compatibile with main stream DC switch/routers

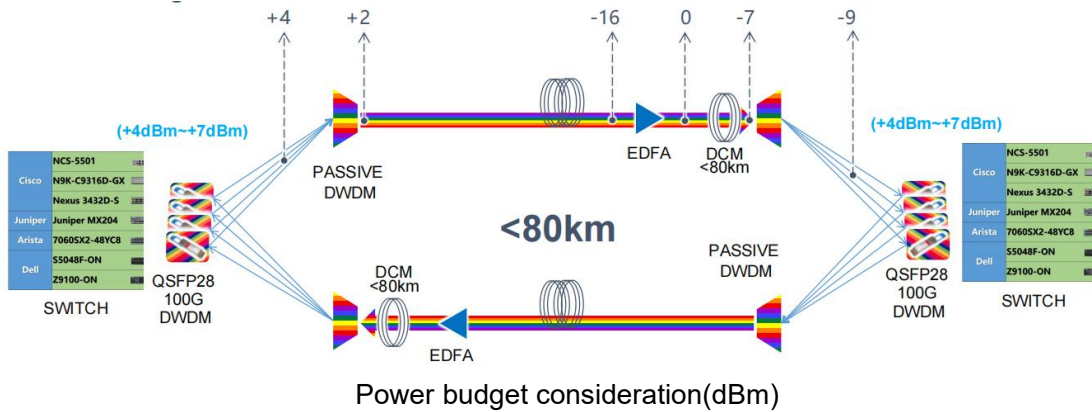
| Switch/Router information | | Compatibility test result | | | |
|---------------------------|---|--|--|--|--|
| Vendor | Series | Traffic | DDM | Type | Alarm |
| Cisco | NCS-5501  | Passed  | Passed  | Passed  | Passed  |
| | N9K-C9316D-GX  | Passed  | Passed  | Passed  | Passed  |
| | Nexus 3432D-S  | Passed  | Passed  | Passed  | Passed  |
| Juniper | Juniper MX204  | Passed  | Passed  | Passed  | Passed  |
| Arista | 7060SX2-48YC8  | Passed  | Passed  | Passed  | Passed  |
| Dell | S5048F-ON  | Passed  | Passed  | Passed  | Passed  |
| | Z9100-ON  | Passed  | Passed  | Passed  | Passed  |

100G QSFP28 DWDM Solution

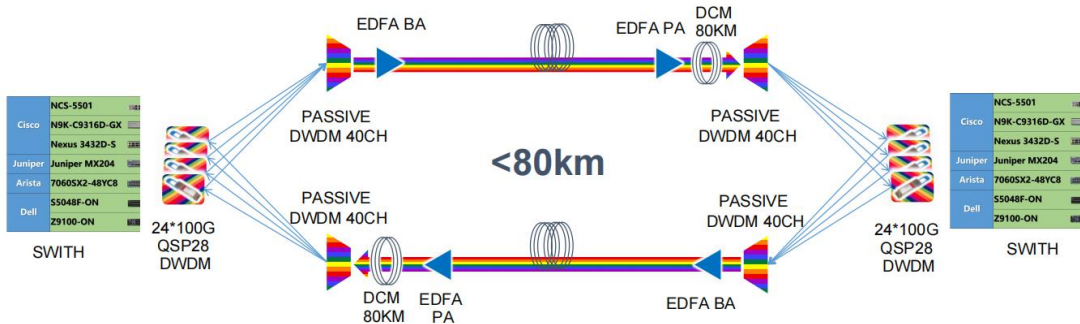
1. Passive DWDM MUX 1X100G QSFP28 DWDM 120KM Solution



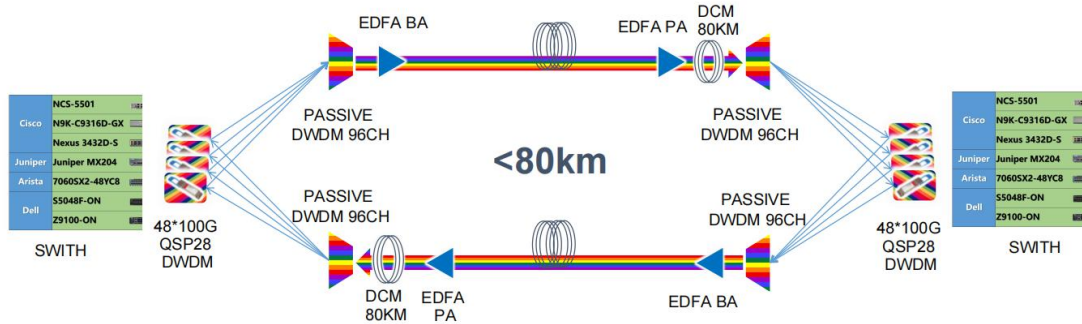
2. Passive DWDM MUX 4X100G QSFP28 DWDM 80KM Solution



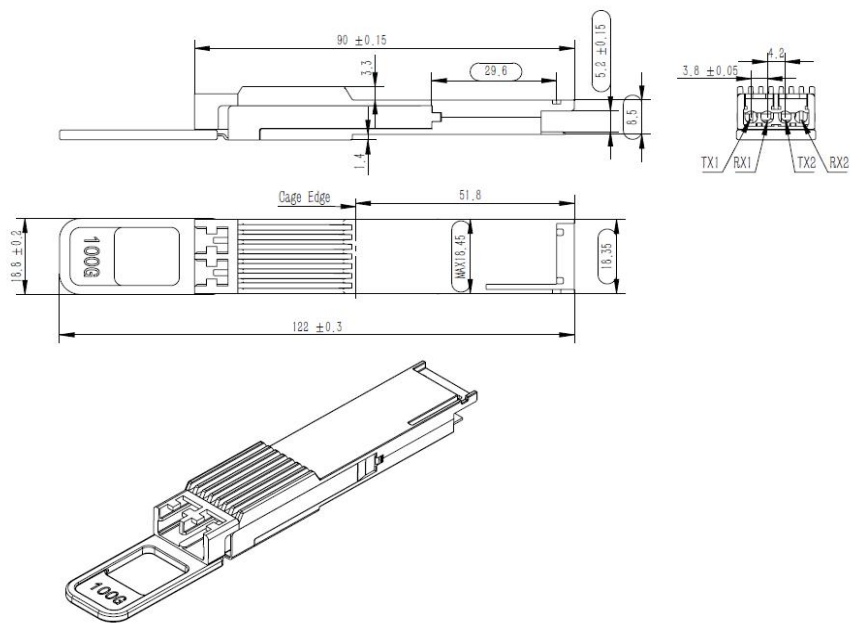
3. Passive DWDM MUX 24X100G QSFP28 DWDM 80KM Solution



4. Passive DWDM MUX 48X100G QSFP28 DWDM 80KM Solution



Mechanical Drawings



Wavelength Table

| TX1 | | | TX2 | | |
|---------|-----------------|-----------------------|---------|-----------------|-----------------------|
| Ch. No. | Frequency (THz) | Center Wavelength(nm) | Ch. No. | Frequency (THz) | Center Wavelength(nm) |
| C13 | 191.30 | 1567.13 | C14 | 191.40 | 1566.31 |
| C13+ | 191.35 | 1566.72 | C14+ | 191.45 | 1565.90 |
| C15 | 191.50 | 1565.50 | C16 | 191.60 | 1564.68 |
| C15+ | 191.55 | 1565.09 | C16+ | 191.65 | 1564.27 |
| C17 | 191.70 | 1563.86 | C18 | 191.80 | 1563.05 |
| C17+ | 191.75 | 1563.45 | C18+ | 191.85 | 1562.64 |
| C19 | 191.90 | 1562.23 | C20 | 192.00 | 1561.42 |
| C19+ | 191.95 | 1561.83 | C20+ | 192.05 | 1561.01 |
| C21 | 192.10 | 1560.61 | C22 | 192.20 | 1559.79 |

| | | | | | |
|------|--------|---------|------|--------|---------|
| C21+ | 192.15 | 1560.20 | C22+ | 192.25 | 1559.39 |
| C23 | 192.30 | 1558.98 | C24 | 192.40 | 1558.17 |
| C23+ | 192.35 | 1558.58 | C24+ | 192.45 | 1557.77 |
| C25 | 192.50 | 1557.36 | C26 | 192.60 | 1556.55 |
| C25+ | 192.55 | 1556.96 | C26+ | 192.65 | 1556.15 |
| C27 | 192.70 | 1555.75 | C28 | 192.80 | 1554.94 |
| C27+ | 192.75 | 1555.34 | C28+ | 192.85 | 1554.54 |
| C29 | 192.90 | 1554.13 | C30 | 193.00 | 1553.33 |
| C29+ | 192.95 | 1553.73 | C30+ | 193.05 | 1552.93 |
| C31 | 193.10 | 1552.52 | C32 | 193.20 | 1551.72 |
| C31+ | 193.15 | 1552.12 | C32+ | 193.25 | 1551.32 |
| C33 | 193.30 | 1550.92 | C34 | 193.40 | 1550.12 |
| C33+ | 193.35 | 1550.52 | C34+ | 193.45 | 1549.72 |
| C35 | 193.50 | 1549.32 | C36 | 193.60 | 1548.51 |
| C35+ | 193.55 | 1548.91 | C36+ | 193.65 | 1548.11 |
| C37 | 193.70 | 1547.72 | C38 | 193.80 | 1546.92 |
| C37+ | 193.75 | 1547.32 | C38+ | 193.85 | 1546.52 |
| C39 | 193.90 | 1546.12 | C40 | 194.00 | 1545.32 |
| C39+ | 193.95 | 1545.72 | C40+ | 194.05 | 1544.92 |
| C41 | 194.10 | 1544.53 | C42 | 194.20 | 1543.73 |
| C41+ | 194.15 | 1544.13 | C42+ | 194.25 | 1543.33 |
| C43 | 194.30 | 1542.94 | C44 | 194.40 | 1542.14 |
| C43+ | 194.35 | 1542.54 | C44+ | 194.45 | 1541.75 |
| C45 | 194.50 | 1541.35 | C46 | 194.60 | 1540.56 |
| C45+ | 194.55 | 1540.95 | C46+ | 194.65 | 1540.16 |
| C47 | 194.70 | 1539.77 | C48 | 194.80 | 1538.98 |
| C47+ | 194.75 | 1539.37 | C48+ | 194.85 | 1538.58 |
| C49 | 194.90 | 1538.19 | C50 | 195.00 | 1537.40 |
| C49+ | 194.95 | 1537.79 | C50+ | 195.05 | 1537.00 |
| C51 | 195.10 | 1536.61 | C52 | 195.20 | 1535.82 |
| C51+ | 195.15 | 1536.22 | C52+ | 195.25 | 1535.43 |
| C53 | 195.30 | 1535.04 | C54 | 195.40 | 1534.25 |
| C53+ | 195.35 | 1534.64 | C54+ | 195.45 | 1533.86 |
| C55 | 195.50 | 1533.47 | C56 | 195.60 | 1532.68 |
| C55+ | 195.55 | 1533.07 | C56+ | 195.65 | 1532.29 |
| C57 | 195.70 | 1531.90 | C58 | 195.80 | 1531.12 |
| C57+ | 195.75 | 1531.51 | C58+ | 195.85 | 1530.72 |
| C59 | 195.90 | 1530.33 | C60 | 196.00 | 1529.55 |
| C59+ | 195.95 | 1529.94 | C60+ | 196.05 | 1529.16 |

Notes:

The two channels of the transceiver meet above wavelength table. And other channel wavelength configurations are acceptable for customize design.

All the specification is designed by single wavelength.

