

# 100G CFP Transceiver Module

## Transceiver Module



### Specification

The QSFP28 transceiver module complies with SFF-8636, MSA and IEEE802.3bm standards, and the total transmission rate can reach 103.1Gbps. Features low power consumption, small size and high speed. Including AOC, SR4, LR4, ER4, CWDM4, PSM4 and other series, adopting LC or MPO optical port. Mainly used for 100G data center internal network, data center interconnection and metropolitan area network and 5G wireless network applications.

### Functions and features

- Compliant with SFF-8636, MSA and IEEE802.3bm
- Using 4 × 25.78Gbps laser
- Support Rate up to 103.1Gbps ~ 112Gbps
- Support the longest transmission distance up to 40KM
- Support 100G Ethernet and OTN OTU4 network applications
- Single-mode and multi-mode specifications
- Built-in digital diagnostic function (DDM)
- Working temperature: 0 °C ~ 70 °C
- Storage temperature: -40 °C ~ 85 °C
- RoHs-6 compliant (Lead-free)
- Ethernet transmission system
- Data center transmission system
- Fibre Channel transmission system
- Routing/Server interface system
- Switch-to-switch interface transmission system
- 5G wireless transmission system

## Parameters

| Model              | Form Type    | Wavelength                                       | Rate    | Cable Type | Interface | TX Power        | Receiver Sensitivity | Distance | DDM    |
|--------------------|--------------|--|---------|------------|-----------|-----------------|----------------------|----------|--------|
| <b>100G QSFP28</b> |              |  |         |            |           |                 |                      |          |        |
| VQP(D)-BG3MR       | QSFP28 PSM4  | 1310nm   | 100Gbps | SMF        | LC        | (-6~+2) dBm     | ≤-12.6dBm            | 2km      | Yes/No |
| VQP(D)-BG3LR       | QSFP28 PSM4  | 850nm  | 100Gbps | SMF        | LC        | (-5~+2) dBm     | ≤-12.6dBm            | 10km     | Yes/No |
| VQP(D)-BGCMRD      | QSFP28 CWDM4 | 1271nm<br>1291nm<br>1311nm<br>1331nm             | 100Gbps | SMF        | LC        | (-6.5~+2.5) dBm | ≤-11.5dBm            | 2km      | Yes/No |
| VQP(D)-BGCLRD      | QSFP28 CWDM4 | 1271nm<br>1291nm<br>1311nm<br>1331nm             | 100Gbps | SMF        | LC        | (-6.5~+2.5) dBm | ≤-13dBm              | 10km     | Yes/No |
| VQP(D)-BGCLRE      | QSFP28 LR4   | 1295.56nm<br>1300.05nm<br>1304.58nm<br>1309.14nm | 100Gbps | SMF        | LC        | (-4.3~+4.5) dBm | ≤-10.6dBm            | 10km     | Yes/No |
| VQP(D)-BGCERE      | QSFP28 ER4   | 1295.56nm<br>1300.05nm<br>1304.58nm<br>1309.14nm | 100Gbps | SMF        | LC        | (-2.5~+6.5) dBm | ≤-20.5dBm            | 40km     | Yes/No |