

40G QSFP+ Transceiver Module

Transceiver Module



Specification

The 40G QSFP+ transceiver module complies with QSFP+ MSA SFF-8436 and IEEE 802.3ba standards, and the total transmission rate can reach 41.25Gb/s. With low power consumption, small size, high rate and other characteristics. The multimode transceiver module adopts four 10.3125Gbps channel VCSEL laser array optical transmitters and four PIN photo-detector array receivers. The transmission distance of OM3 multimode fiber can reach 300M and the transmission distance of OM4 multimode fiber can reach 400M. The single-mode optical module converts four 10.3125Gbps channels into four CWDM channels (DFB laser array) optical signals, and multiplexes them to 41.25Gbps, which are output from the transmitter through SMF. The receiver receives 41.25Gbps optical signal input and demultiplexes it into 4 CWDM 10.3125Gbps channels. Received by PIN light detector, the transmission distance can reach 40KM, and it is widely used in various Ethernet devices such as switches, routers, data centers.

Functions and features

- QSFP + MSA SFF-8436 compliant
- Rate up to 10.3125Gb/s per channel
- Total Rate up to 41.25Gb/s
- Transmission distance up to 40KM
- 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)
- High-speed access
- 40G Ethernet
- Mass storage interconnect
- High performance computing server data link
- Interconnection of infinite broadband technology QDR and FDR

Parameters

Model	Form Type	Wavelength	Rate	Cable Type	Interface	TX Power	Receiver Sensitivity	Distance	DDM
40G QSFP+									
VQS(D)-AG8SR	QSFP+	850nm	40Gbps	MMF	LC	(-7~+0) dBm	≤-9.5dBm	100m	Yes/No
VQS(D)-AG8SR	QSFP+	850nm	40Gbps	MMF	LC	(-7~+0) dBm	≤-10dBm	300m	Yes/No
VQS(D)-AG3MRD	QSFP+	1310nm PSM4	40Gbps	SMF	LC	(-7~+0) dBm	≤-11.5dBm	2km	Yes/No
VQS(D)-AG3LRD	QSFP+	1310nm PSM4	40Gbps	SMF	LC	(-7~+0) dBm	≤-12dBm	10km	Yes/No
VQS(D)-AGCMRD	QSFP+	1271nm 1291nm 1311nm 1331nm	40Gbps	SMF	LC	(-7~+2) dBm	≤11.7dBm	2km	Yes/No
VQS(D)-AGCLRD	QSFP+	1271nm 1291nm 1311nm 1331nm	40Gbps	SMF	LC	(-7~+2) dBm	≤13.7dBm	10km	Yes/No