

## 40G QSFP+ Single Mode Transceiver

Designed for 40G Ethernet and OTU3 links over single mode fibers, the Sintai 40G QSFP+ single mode optical transceivers use CWDM wavelengths (1271nm, 1291nm, 1311nm and 1331nm) and support transmission distance up to 40km.

### Product Feature

- Adopt QSFP+ hot-swappable encapsulation with LC interface for single mode
- 4 x 10Gb/s laser is adopted
- Support an overall rate of 39.8 Gb/s~44.6 Gb/s
- Support network applications such as 40G Ethernet and OTU3
- Single mode optical fiber supports a transmission distance of up to 40km
- Built-in DDM (digital diagnostic monitoring function)
- Working temperature: 0°C ~ +70°C
- Comply with RoHS standards

### Product Overview

The 40G QSFP+ optical communication module launched by Sintai Communication Co., Ltd. is specifically designed for 40G Ethernet and 40G OTN applications. The module conforms to the QSFP+ MSA standard and IEEE 802.3ba standard and supports a maximum rate of 44.6Gb/s, with digital diagnostic capabilities. The product contains two kinds' modules: single-mode module and multimode module. The single-mode module is equipped with MUX/DEMUX devices, and it uses wavelength division multiplexing technology to multiplex the 4 x 10Gb/s CWDM channel on a single optical fiber, with the longest transmission distance of up to 40km. It's widely used in environments such as large data centers, campus networks, metro networks, etc.

### Product Specification

Model	ST-QSQL-31	ST-QSQE-31
Operating wavelength (nm)	1271, 1291, 1311, 1331	1271, 1291, 1311, 1331
Operating rate (Gb/s)	4x11.2	4x11.2
Optical power range of single channel transmitting (dBm)	-2.3~+2.3	-2.7~+4.5
Optical power range of single channel receiving (dBm)	-13.7~+2.3	-21.2~-4.5
Power range of total transmission (dBm)	≤+8.3	≤+10.5
Power range of total receipt (dBm)	-7.7~+8.3	-15.2~+1.5
Transmission distance (km)	10(SMF)	40 (SMF)
Extinction ratio (dB)	4.5	5.5
Working temperature range (°C)	0~+70	0~+70