

## 100G QSFP28 Single Mode Transceiver

Designed for 100G Ethernet and OTU3 links over single mode fibers, the Sintai 100G QSFP28 single mode optical transceivers use LWDM wavelengths (1295.56nm, 1300.05nm, 1304.58nm, 1309.14nm) and support transmission distance up to 10km.

### Product Feature

- Adopt QSFP28 hot-swappable encapsulation with LC interface for single mode
- 4 x 25Gb/s laser is adopted
- Support an overall rate of 103.1Gb/s
- Support network applications such as 100G Ethernet and OTU3
- Single mode optical fiber supports a transmission distance of up to 10km
- Built-in DDM (digital diagnostic monitoring function)
- Working temperature: 0°C ~ +70°C
- Comply with RoHS standards

### Product Overview

The 100G QSFP28 optical communication module launched by Sintai Communication Co., Ltd. contains the 100GBASE-SR4 and 100GBASE-LR4 series and supports a maximum rate of 103.1Gb/s. This series of products use LC or MPO optical port and they are compatible with IEEE802.3ba standard and SFF-8636 standard; with characteristics of low power consumption, small volume and high speed, it is advantageous to the data center to increase capacity, improve port density and reduce power consumption. It's mainly used in environment such as internal network of 100G data center, data center interconnection and metro area network. The 100G QSFP28 LR4 module is composed of 4 EML lasers and PIN receivers, and it uses the wavelength division multiplexing technology to multiplex 4-channel different wavelengths on a single fiber for the transmission, with the longest transmission distance of 10km.

### Product Specification

Model	ST-QSCL-31
Operating wavelength (nm)	1295.56, 1300.05 1304.58, 1309.14
Operating rate (Gb/s)	4x25.78
Optical power range of single channel transmitting (dBm)	-1.3~+4.5
Optical power range of single channel receiving (dBm)	-8.6~+4.5
Power range of total transmission (dBm)	≤+10.5
Power range of total receipt (dBm)	-2.6~+5.5
Transmission distance (km)	10 (SMF)
Extinction ratio (dB)	4
Working temperature range (°C)	0~+70