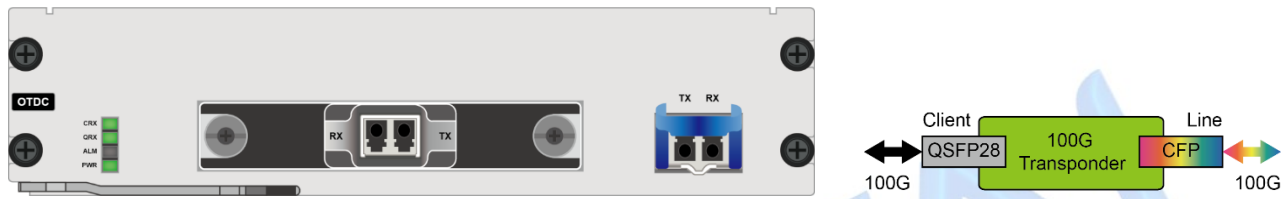# OTDC: 1x100G CFP Transponder

The 1x100G Transponder service access board from Sintai Communication supports one 100G service access, adopts advanced technologies such as PDM-QPSK modulation and coherent reception, and overcomes the OSNR requirements, CD tolerance, and PMD tolerance of high-speed transmission systems. And the nonlinear physical effects of transmission, such as 100G service 1200 km or more of non-electrical relay transmission, and the line side interface supports C-band 96-wave (50 GHz) adjustable.

Product specification

Function	Note
Product model	OTDC
Interface	Client-side interface: 1 QSFP28 hot-pluggable WDM-side interface: 1 CFP hot-pluggable, coherent PDM-QPSK
Line mode	Support one 100G service transmission, transform one 100G service optical signal into one DWDM standard wavelength optical signal
Relay mode	Support 100G wavelength electrical relay
Support service type	100GE OTU4
WDM technology	Support DWDM: C band 50GHz 96 wavelengths adjustable
FEC technology	Support SDFEC
Occupied slot number	Support OTNS8600 series chassis, occupy 2 slots
Network management function	Support real time monitoring of the port working state, including: transmitting optical power and receiving optical power, temperature, etc. Support port loopback and port shutdown
Max power consumption	50W (including transceiver)
MTBF	＞100000 hours