OTNS8600 II（2U system）

The integrated C/DWDM platform of OTNS8600 II type optical transmission network system is mainly used in metro area nodes，and it solves the following shortage of fiber resources below the metro area network, completes a unified load and flat networking for multiple services in industries such as operators, Broadcast and TV system, IDC, finance, government, cloud and big data. It effectively reduces the network construction cost and operation cost and provides a best solution for the metro area transmission scenes. OTNS8600 II can cooperate with other Sintai Communication OTNS series products and implement networking according to the different requirements.

System structure



OTNS8600 II

Product features

- The standard 2U rack type design fully adopts the way of outlet on the front panel, provides 7 service single-board slots, 1 network management single-board slot and service slot, 1 fan single-board slot and 2 power single-board slots, which are all pluggable.
- It supports multiple services of STM-1/4/16/64 and services such as FE, GE, 10GE, 40GE, 100G, SAN, CPRI and PON and meets the requirements of the multiple service access
- It supports the access of up to 32 bidirectional 10G services or 64 unidirectional 10G services on a single equipment, and the expansion of transmission capacity to 960 Gbit/s is available through the equipment stack
- It supports application scenes of single fiber unidirection, single fiber bidirection and dual fiber bidirection
- It supports the maximum transmission distance of 130km (36 db) for a single span and can realize long distance transmission through the relay
- It supports various network protection solutions such as optical layer 1+1 channel protection or optical line side 1+1 protection, and provides multiple protection for vital equipment units and optical fiber lines, with a high reliability

- It supports the power supply of 220V AC or -48V DC, with a 1+1 power input protection
- It supports 19 inches and ETSI cabinet, easy to lay out, with a strong suitability
- It supports free-of-configuration installation, and the equipment is plug-and-play
- It supports a unified network management platform and provides a perfect performance monitoring ability in performance of network and equipment
- It adopts green energy-saving design, with a typical configuration of 120W power consumption
- It focuses on the metro area network and meets service access & convergence and networking

Product specification

Performance Parameters	Technical indicators
Product Model	OTNS8600 II
Equipment size	2U: 88 mm (height)x442 mm (width)x220 mm (depth)
Service slot	8 slots (network card is optional for one of the slots)
Transmission capacity of Single equipment	• 32 wavelength* 10G bidirectional transmission • 64 wavelength* 10G unidirectional transmission • 4 wavelength* 10G unidirectional and bidirectional transmission
Wavelength	• CWDM:1271nm~1611nm • DWDM:C Band, 100 GHZ or 50 GHZ
Maximum rate of Single channel	100Gbit/ s
Transmission distance	• For DWDM system, it supports the maximum transmission distance of 130km (36 db) for a single span • For CWDM system, it supports a maximum transmission distance of 80 km
Optical amplifier	25 db (nominal gain)
Service interface type	STM-1/4/16/64, OC-3/12/48/192, FE, GE, GE, 40 10 GE, GE, FC100 100/200/400/200/400, FICON, ESCON, EPON and GPON, CPRI 1/2/3/6/7, etc
Clock features	Support the IEEE 1588 V2
Optical connector	SFP/SFP +, LC type interface
Network topology	Point to point, chain type, star type, ring type
Installation	"19"and 23" cabinets, ETSI 300mm/600mm cabinets Wireless outdoor base station cabinet, FTTx outdoor cabinet, hanging wall
Working temperature range	- 10 ℃~60 ℃ (typical)
Working humidity range	5~95% no condensation

Storage temperature range	-40℃ ~ 85℃
Heat dissipation	Fan cooling
Power supply mode	AC: 90~260V or DC: -36~-72 V (support 1+1 backup power input)
Power consumption	120W (typical)