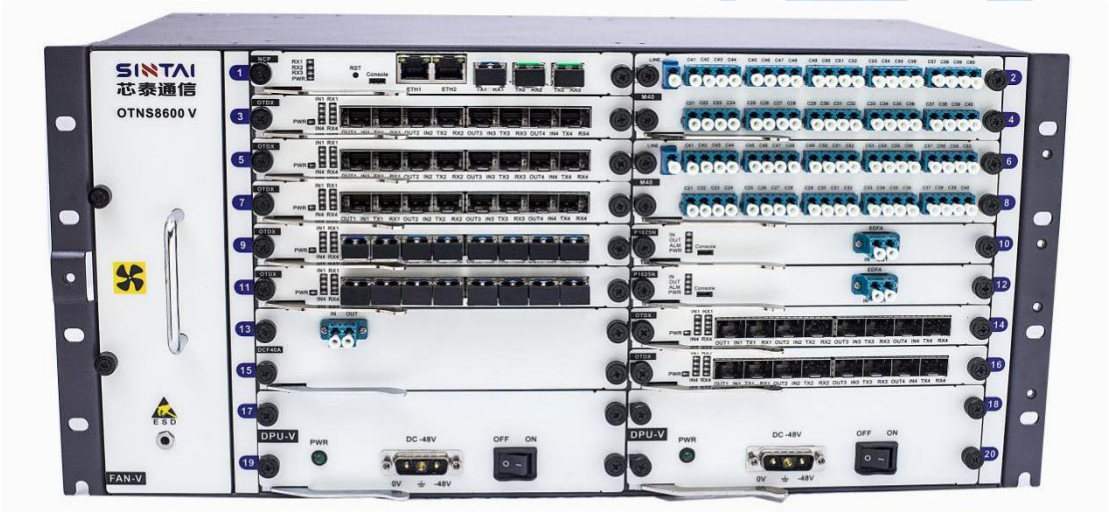
OTNS8600 V（5U system）

The OTNS8600 V type optical transmission network system, which is mainly used in metro convergence layer and metro core layer, is a new generation of optical transmission system with high integration, high capacity and long distance launched by Sintai Communication Co.,Ltd. The equipment applies an advanced transmission technology and highly integrated technology, facing the whole IP transmission. It provides a function of wide bandwidth, high capacity and fully transparent transmission, which can realize smooth capacity upgrade, offer a comprehensive, flexible and mature protection solution and provide a stable platform for multiple service operation and future network upgrade and expansion.

System structure



OTNS8600 V

Product features

■ Huge capacity transmission and capacity of modular upgrade

- It supports 96 wavelength 10G system transmission at C band
- It supports a access rate of up to 100Gbit/s for single channel
- It supports a single level multiplexing/demultiplexing architecture for 80/96 wavelength, without the need of OCI to implement multiplexing/demultiplexing for 80 wavelength
- It supports a system expansion for 40/48->80/96 wavelength and also a modular expansion for 10G->100G, which ensures the low investment in the early stage of the network construction and the smooth expansion in the late stage, so as to meet the future growing demand in bandwidth

■ **Multi-rate, multi-protocol, full-service access and convergence**

- Access to SDH/SONET services, data services of POS, GE, 10 GE, 40 GE, 100 GE and other services of SAN, CPRI at various rate levels.
- Powerful capacity of service convergence, supporting 8xFE service convergence, 8×GE service convergence and 10×10GE service convergence

■ **High integration, green, convenient maintenance**

- 5U frame supports 18 service slots, with a super high level of integration
- Compact structure and flexible installation, available for installation in cabinet with 300 mm depth
- 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
- Lowest power consumption in the industry, assist operators to build green energy-saving network

■ Outstanding architecture design and secure data transmission

- It offers a variety of network level protection and provides comprehensive protection for optical fiber line and service
- It provides comprehensive equipment protection: power equipment protection, fan protection
- All-service transparent transmission reduces the transmission delay of circuit cross and ensures the reliability of transmission
- All optical interfaces are pluggable and reusable, which reduces the investment of spare parts

Product specification

Performance Parameters		Technical indicators
Product Model		OTNS8600 V
Equipment size		5U: 220 mm (height)x442 mm (width)x220 mm (depth)
Service slot		● 18 slots for DC equipment (network card is optional for one of the slots) ● 16 slots for AC equipment (network card is optional for one of the slots)
Maximum wavelength number		DWDM: 96 wavelength; CWDM: 16 wavelength
Wavelength		● DWDM: C- Band, 100GHz or 50GHz ● CWDM: 1271nm~1611nm
Transmission capacity of Single equipment		100Gbit/s
Supported service type		STM-1/4/16/64/256、OC-3/12/48/192/768 any service of 100M ~ 2.5Gbps FE/GE/10GE/40GE/100GE ESCON/FICON/FICON Express、FC100/FC200/FC400/FC800/FC1200/SAN EPON、GPON、CPRI 1/2/3/6/7
Clock features		Support IEEE 1588 V2
Optical connector		SFP/SFP +, LC type interface
Network topology		Point to point, chain type, star type, ring type , ring-with-chain type, ring-cross type, ring-tangency type
Backup and protection	Network level protection	Client-side 1+1protection, 1+1 protection inside board, optical multiplex section 1+1 protection, optical line 1+1 protection
	Equipment level protection	● Power supply backup ● Fan backup
Installation		"19"and 23" cabinets, ETSI 300mm/600mm cabinets
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		300W (typical)