# OTNS8600 P (Integrated DWDM Equipment)

With the rapid development of informatization and automation processes in various industries, large bandwidth services are emerging endlessly and the demand for centralized and unified management is growing urgently. Therefore, the basic capacity of the transmission pipeline must be upgraded. Simple network planning, rapid service deployment, smooth bandwidth upgrade, and convenient maintenance operation will be the core needs of industry customers building their enterprise information network.

The OTNS8600 P-type all-optical convergence equipment independently researched and developed by Sintai Communication Co., Ltd based on photonic integration technology can build networks in transmission capacity of 80G, 160G, 400G, and 480G in batches. It can eliminate the complex optical layer configuration and reduce the tedious connection of optical fibers. OTNS 8600 P is very much like a switch which can be easily connected and start to work. It builds network rapidly and is simple to maintain. Thus it can perfectly meet the needs of industry customers in metropolitan transmission.

System Structure

OTNS8600 P equipment

- 480G photonic integrated circuit
- High reliability and density
- Low power consumption
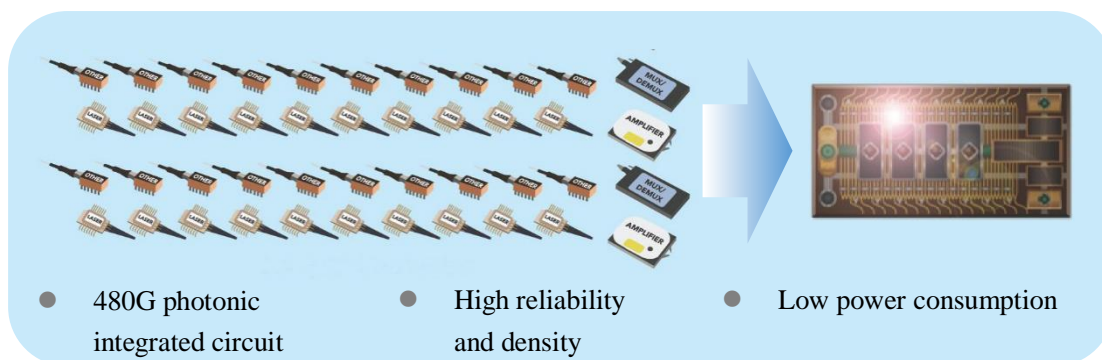
Product Features

- 1U rack device, ultra-high integration design, 90% of cabinet space saving compared to traditional solutions
- Single-channel access rate can reach up to 10 Gbit/s and it's self-adaptive to access to all types of services at rates of 10 Gbit/s or lower (like FE/GE/10GE LAN, 10GE WAN, STM-1~64, etc.)
- Single device supports up to 480G transmission capacity. 80G/160G/400G/480G devices can be flexibly selected according to service requirements, and stacking is supported to increase the transmission capacity
- Service ports are completely physically isolated and service is transparently transmitted to improve network security
- The line side supports single-core and dual-core fiber to maximize the saving of fiber optic cable resources
- Support 80km transmission in metropolitan area, and achieve longer distance transmission by optical relay
- In-band monitoring channel, optical path connectivity enables SNMP management of the whole network
- Support 1+1 line protection of the optical cable side, which can automatically select transmission route, and improve network reliability
- Dual-server power configuration, hot-pluggable, 1+1 hot backup by Load Share
- The network construction is simple by choosing device model based on the fiber attenuation and transmission distance. There is no need to change the original network topology and no complicated optical layer design.
- One-box delivery by site, power-free distribution, plug and play, no jump fiber, no manual intervention
- The first company to launch a completely new solution based on photonic integration technology with independent R&D

Product Specification

Performance Parameters		Technical indicators
Product Model		OTNS8600 P
Equipment size		1U: 44 mm (Height)×442 mm (Width)×560 mm (Depth)
Single equipment max transmission capacity		480G
Single port max transmission rate		10Gbit/s
Supported service type		100M~10G all kinds of services, including services of STM-1/4/16/64, OC-3/12/48/192, FE, GE, 10GE, FC100/200/400/800/1200, FICON, ESCON,CPRI 1/2/3/6/7
Clock features		Support IEEE 1588 V2
Network topology		Point to point, chain type, star type,
Backup and protection	Network level protection	Support line side 1+1 protection
	Equipment level protection	● Power supply backup ● Fan backup
Installation		"19" or 23" cabinets,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 (support 1+1 backup power input)
Power consumption		400W (typical)