OTNS8600-DCI8: 2U DCI Platform

The OTNS8600-DCI8 is an optoelectronic integrated WDM transmission platform designed for data center interconnection(DCI) by Guangzhou Sintai Communication Co., Ltd. features high integration(optoelectronic integration), large bandwidth(32Tbits/Fiber), simple deployment(free of complex tuning and testing), easy operation and maintenance(CLI /Web LCT / SNMP/ NETCONF /NMS), security and reliability. It can meet the rapidly growing bandwidth demand among DCs, realize flexible deployment of equipment, create an open optical network architecture, and lead the DCI market into a new era of high-speed all-optical interconnection.

OTNS8600-DCI8

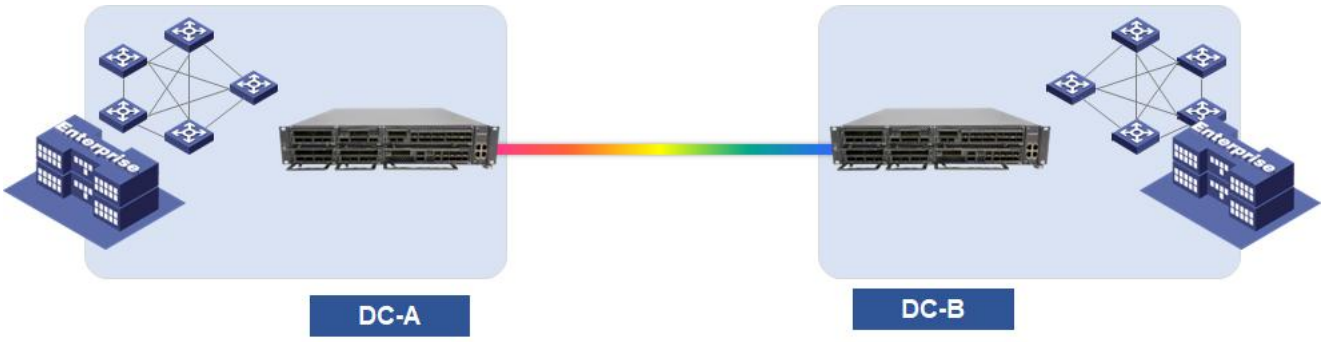
Product features

- Adopt optoelectronic integrated, pluggable modular design; components support hot-plugging, deploy and expand on demand.
- Cooling design of front-in and back-out airflow, 2+1 FRU fan units and supports automatic speed adjustment.
- 19-inch / 600mm depth cabinet installation, adapted to the data center room, can be deployed with IT equipment in one cabinet.
- Transmission capacity of each fiber pair is up to 32Tbit/s@Ultra-wide C-band 400G*80λ/800G*40λ, up to 12.8Tbit/s per subrack.
- Single wave capacity up to 800G, towards 1.2T&1.6T continuous evolution.
- Highly integrated optical layer board of OA, WSS, VOA, OSC, OTDR, OCM, and OLP, etc. to simplify internal fiber connections.
- Support 10GbE, 25GbE, 40GbE, 100GbE, 100GbE FlexE(Unware), 400GbE, STM-64, 10GbE_WAN, FC800, FC1600, FC3200, OTU2, OTU2e, OTU4 and other service access.
- Support 9-degree ROADM networking with Flexible Grid.
- Support comprehensive performance monitoring of service layer, OTN layer and optical layer with quality visibility.
- Provide a variety of multi-layer network-level and device-level protection schemes, protection reversal time delay is less than 50ms, ensuring superior protection performance.
- Supports CLI, Web LCT and GUI management platform based on B /S architecture, SNMP, NETCONF/YANG standard open interfaces.

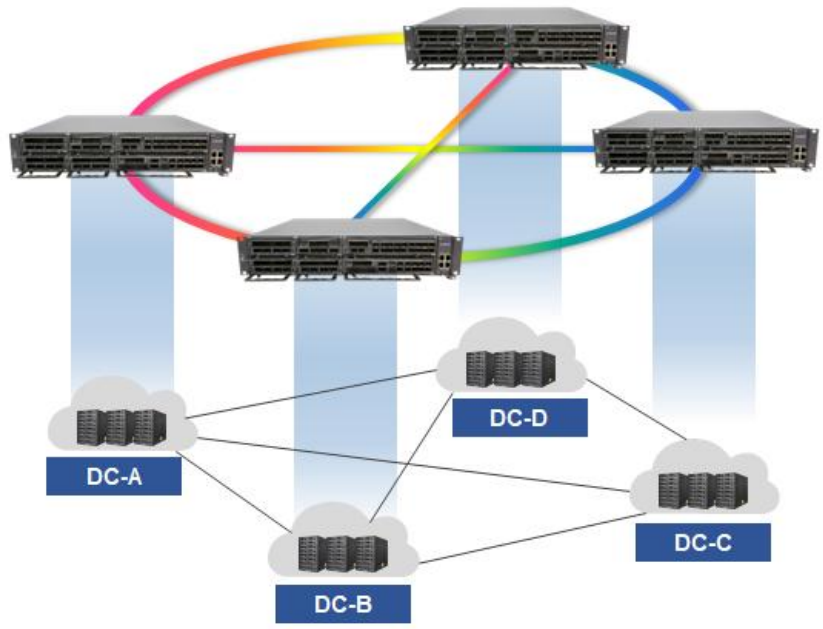
Add: 4F, Scientific Building, No. 63 Punan Road, Huangpu District, Guangzhou, China
Tel: 020-82037001 Fax: 020-82553470 Email: sales@sintai.com.cn

Application scenario

Small Network: Single unit configured with high density optical layer+ electrical layer to form a point-to-point network.



Medium/Large Networks: Stacking of multiple layer devices + multi-degree ROADMs to form ring networks



Product specification

Parameter		Description
Chassis	Dimensions(H x W x D)	2U: 88mm(height) × 446mm(width) × 450mm(depth)
	Maximum capacity	12.8Tbit/s
	Number of service board slots	8
	Applicable cabinet	19-inch cabinet 600mm or more depth
Line-side port	Rate	● 100G(PDM _QPSK) ● 200G(PDM _QPSK) / 200G(PDM _8QAM) / 200G(PDM _16QAM) ● 300G(PDM _8QAM) ● 400G(PDM _16QAM) / 400G(PDM_QPSK) ● 800G(PDM _16QAM)
	Optical module	Pluggable wavelength tunable QSFP28/QSFP-DD/CFP2/OSFP
Client-side port	Service type	10GbE, 25GbE, 40GbE, 100GbE, 100GbE FlexE(Unware), 400GbE, STM-64, 10GbE_WAN, FC800, FC1600, FC3200, OTU2, OTU2e, OTU4
	Optical module	Pluggable SFP+/SFP28/QSFP28/QSFP-DD
Optical power management		ALS, AGC
Maximum number of wavelengths		Fixed grid: 120 waves@50GHz
Channel spacing		Fixed grid: 50GHz/75GHz/100GHz/150GHz Flexible grid: 6.25GHz slice
Center frequency range		190.7THz ~ 196.65THz
Central wavelength range		1524.5nm ~ 1572.06nm
Protection function		● Optical Line Protection(OLP) ● Optical Multiplex Section Protection(OMSP) ● Optical Channel Protection(OChP) ● 1+1 Protection within the board(supported by P422 muxponder)
Network management		● Support main control board(SCU) 1 +1 backup ● Support CLI, Web LCT, SNMP, NETCONF and GUI management platform based on B /S architecture ● Support DCN communication based on OSC
Power supply	Backup	Standard CRPS power supply 1 +1 backup
	AC	● Rated voltage range: 100V AC ~ 130V AC(50/60Hz) / 200V AC ~ 240V AC(50/60Hz) ● Voltage range: 90 V AC ~ 264 V AC(45Hz ~65Hz)
	HVDC	● Rated voltage range: 2 - 40V HVDC ● Maximum voltage range: 192V HVDC to 288 V HVDC
	DC	● Rated voltage range: -48 V DC / -60 V DC ● Maximum voltage range: -40 V DC to -72 V DC
Heat dissipation		Front-to-back airflow, 2+1 fan board backup
Typical power consumption		<800W(standard)
Environment	Operating temperature	Short term: -5℃～+ 45℃; Long term: 0℃～ 40℃
	Storage temperature	-40℃～+ 70℃
	Humidity	5%～95%(no condensation)