DCI (OTNS8600-DCI8 2U)

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Details

OTNS8600-DCI8 is an optoelectronic integrated WDM transmission platform designed for Data Centre Interconnect (DCI) by D Tech Trading features high integration (optoelectronic integration), large bandwidth (25.6Tbits /

Fiber), simple deployment (no complicated tuning), easy operation and maintenance (NETCONF / YANG) and safety and reliability. It can meet the rapidly growing bandwidth demand between DCs, achieve 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.

Product features

Adopt optoelectronic integrated, pluggable modular design; components support hot-plugging, deploy and expand on demand.

Front inlet air and rear outlet air cooling design, 2+1 FRU fan units available, automatic speed adjustment supported.

19" / 600mm Depth cabinet can be installed, suitable for data center rooms and can be deployed with IT equipment in common cabinets.

Transmission capacity up to 25.6Tbit/s per pair @ C+ band 400G*64?, up to 3.2Tbit/s per subrack.

Single wave capacity up to 400G, continuous evolution towards 600G & 800G & 1.2T.

Optical layer card highly integrated with OA, WSS, VOA, OSC, OTDR, OCM, OLP, etc. to simplify internal fiber connectivity.

Supports 10GE, 100GE, 100GE FlexE (Unware), 400GE, STM-64, 10GE WAN, OTU2, OTU4 and other service access.

Supports 9-degree ROADM networking and FlexGrid.

Supports comprehensive performance monitoring and quality visibility at the service, OTN and optical layers.

Provides multiple multi-layer network-level and device-level protection solutions. Protection reversal delay?50ms, ensuring superior protection performance.

Supports NETCONF/YANG standard open interface and GUI management platform based on B/S architectur.

Applications:

Small network:

single platform with high density optical layer card + electrical layer card for point-to-point networks.

Medium / large network?stacking of multiple electrical layers + multi-degree ROADM to form a ring network.

Product Specification:

Parameter	Description
Chassis	
Dimensions (H x W x D)	2U: 88 mm (H) × 446 mm (W) × 450 mm (D)
Maximum capacity	3.2 Tbit/s
Number of service card slots	8
Applicable cabinets	19" cabinet 600mm or deeper
Line-side port	
Rate	
	- 100G (PDM_QPSK) programmable
	- 200G (PDM_QPSK) programmable
	- 200G (PDM_8QAM) programmable
	- 200G (PDM_16QAM) programmable
	- 400G (PDM_16QAM) programmable
Optical module	Pluggable QSFP28 / QSFP-DD or CFP2, wavelength adjustable
Client-side port	
Service type	10GE, 100GE, 100GE FlexE(Unware), 400GE, OTU2, OTU4, STM-64 and 10GE WAN
Optical module	Pluggable SFP+, QSFP28
Max. number of wavelengths	Fixed grid: 96 wavelengths @50 GHz
Channel spacing	Fixed grid: 50 GHz / 75 GHz / 100 GHz / 150 GHz
Central frequency range	191.35 GHz ~ 196.1 GHz

Parameter	Description
Central wavelength range	1528.77 nm ~ 1566.73 nm
Protection function	- Optical line protection (OLP)
	- Optical multiplexed segment protection (OMSP)
	- Optical channel protection (OCHP)
	- SNCP protection (only P422 muxponder supported)
Network management	
	- Supports main controller 1+1 backup (optional)
	- Support CLI, Web LCT, NETCONF, GUI management platform based on B/S architecture
	- Support DCN communication based on OSC
Power supply	
Back-up	Standard CRPS power supply 1+1 backup
AC	- Rated voltage range: 100 V AC?130 V AC (50/60Hz) or 200 V AC?240 V AC (50/60Hz)
	- Max. voltage range: 90 V AC?264 V AC (45Hz~65Hz)
HVDC	- Rated voltage range: 240 V HVDC
	- Max. voltage range: 192 V HVDC?288 V HVDC
DC	- Rated voltage range: -48 V DC/-60 V DC
	- Max. voltage range: -40 V DC?-72 V DC
Heat dissipation	
	- Front inlet air and rear outlet air
	- 2+1 Fan unit backup
Typical power consumption	800W (Electric layer full match)
Environment	
Operating temperature	Short-term: -5??+45?; Long-term: 0??40?
Storage temperature	-40??+70?

Parameter	Description
Humidity	5%?95% (no condensation)