

DCI (OTNS8600-DCI8 1U)

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Details

OTNS8600-DCI4 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, 1+1 FRU fan units available, automatic speed adjustment supported.

19" / 800mm 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 1.6 Tbit/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 architecture.

Product specifications

Parameter		Description
Chassis	Dimensions (H x W x D)	1U: 44 mm (H)×444 mm (W)×490 mm (D)
	Maximum capacity	1.6Tbit/s
	Number of service card slots	4
	Applicable cabinets	19" cabinet 800mm 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 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

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		Support 1 main controller 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 1+1 Fan unit backup
Typical power consumption		550W (Electric layer full match)

Environment	Operating temperature	Short-term: -5??+45?; Long-term: 0??40?
	Storage temperature	-40??+70?
	Humidity	5%?95% (no condensation)