DCI (OTNS8600-DCI8 1U)

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Details

OTNS8600-DCI4 Data Center Interconnect (DCI) Platform

The **OTNS8600-DCI4** is a high-performance optoelectronic integrated WDM transmission platform designed for **Data Center Interconnect (DCI)** applications. It combines high-capacity coherent transmission, simplified deployment, intelligent management, and carrier-grade reliability in a compact 1U chassis.

With transmission capacity up to **25.6Tbps per fiber pair**, support for **100G, 200G, and 400G coherent services**, and comprehensive optical layer integration, the OTNS8600-DCI4 provides an ideal solution for data centers, telecom operators, cloud providers, and enterprise backbone networks.

Category	Specification
Product Model	OTNS8600-DCI4
Product Type	Data Center Interconnect (DCI) WDM Transmission Platform
Architecture	Optoelectronic Integrated WDM Platform
Chassis Size	1U, 44 × 444 × 490 mm (H × W × D)
Maximum System Capacity	1.6 Tbps per Subrack
Maximum Fiber Capacity	25.6 Tbps per Fiber Pair (400G × 64?)

Category	Specification
Service Card Slots	4 Slots
Cabinet Requirement	19-inch Rack, Minimum 800mm Depth
Line Side Capacity	100G / 200G / 400G Coherent Transmission
Supported Modulation	PDM-QPSK, PDM-8QAM, PDM-16QAM
Future Evolution	600G / 800G / 1.2T Ready
Line Side Modules	QSFP28, QSFP-DD, CFP2 (Tunable)
Client Service Types	10GE, 100GE, 100GE FlexE, 400GE, OTU2, OTU4, STM-64, 10
Client Optical Modules	SFP+, QSFP28
Maximum Wavelengths	96 Channels @ 50GHz Grid
Channel Spacing	50GHz / 75GHz / 100GHz / 150GHz
Frequency Range	191.35THz ~ 196.10THz
Wavelength Range	1528.77nm ~ 1566.73nm
Integrated Optical Functions	OA, WSS, VOA, OSC, OTDR, OCM, OLP
ROADM Support	Up to 9-Degree ROADM, FlexGrid
Protection Mechanisms	OLP, OMSP, OCHP, SNCP
Protection Switching Time	50ms
Network Management	CLI, Web LCT, GUI, NETCONF, YANG, OSC Communication

Category	Specification
Main Controller	1 Main Controller Supported
Power Protection	1+1 Redundant CRPS Power Supply
AC Input	90V ~ 264V AC, 45Hz ~ 65Hz
DC Input	-40V DC ~ -72V DC
HVDC Input	192V HVDC ~ 288V HVDC
Cooling Method	Front Air Intake, Rear Air Exhaust
Fan Protection	1+1 Hot-Swappable Redundant Fan Units
Power Consumption	550W (Full Configuration)
Operating Temperature	0°C ~ 40°C (Long-Term), -5°C ~ 45°C (Short-Term)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% RH (Non-Condensing)
Applications	Data Center Interconnect (DCI), Cloud Computing Networks, Te Enterprise Data Centers, Internet Exchange Points (IXP)

Note: The OTNS8600-DCI4 provides up to 25.6Tbps transmission capacity per fiber pair and supports coherent 100G/200G/400G services, making it an ideal solution for next-generation Data Center Interconnect (DCI) and high-capacity optical transport networks.

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