

# X86 - OTDT2

## 2x100G Transponder



## APPLICATIONS

- Long-haul and ultra-long-haul DWDM optical transport networks
- 100GbE service transport over WDM infrastructure
- Data center interconnection (DCI)
- Backbone and metro optical transmission networks
- Enterprise and cloud connectivity requiring high-capacity optical transport
- Optical network upgrades from legacy systems to coherent 100G transmission
- Single-fiber transmission scenarios (optional configuration)

## DESCRIPTION

The 2x100G OTU service board supports two 100G client service interfaces and converts them into two 100G WDM-standard optical wavelength signals, enabling wavelength-division multiplexing (WDM) of multiple optical channels through the multiplexing unit. It also supports the reverse conversion process at the receiving end. The line-side interface utilizes pluggable CFP2-DCO coherent optical modules, enabling ultra-long-haul transmission through advanced coherent detection technology and related signal processing techniques.

## FEATURES

- Supports 2 × 100G client service interfaces
- Converts client signals into WDM-standard optical wavelengths for DWDM transport
- Dual CFP2-DCO coherent optical interfaces with pluggable optics
- Tunable wavelength operation across the C-band (191.35–196.1 THz)
- Optional adjustable optical transmit power
- Optional single-fiber bidirectional transmission
- Supports 100GE and 100GE RS-FEC services
- Optional OTU4 transport support
- Line-side and client-side loopback testing
- Automatic Laser Shutdown (ALS) functionality
- Advanced performance monitoring including:
  - Optical Signal-to-Noise Ratio (OSNR)
  - Pre-FEC and post-FEC BER monitoring
  - Uncorrectable block monitoring
  - Chromatic dispersion monitoring
  - Differential Group Delay (DGD) monitoring
- Real-time optical module monitoring:
  - Temperature
  - Current
  - Voltage
  - Optical transmit/receive power
- OTU layer and Ethernet layer performance monitoring
- Compatible with all OTNS8600 series chassis
- Compact 2-slot design
- Low power consumption (maximum 65 W including optical modules)

## PRODUCT SPECIFICATION

Parameter	Description
Product model	OTDT2
Line side	2 CFP2 optical ports: using 100G/200G CFP2-DCO modules, pluggable Support wavelength adjustable, range covering 191.35~196.1 THz Support adjustable light-emitting power (optional) Support single-fibre bidirectional transmission (optional)
Client side	2 QSFP28 optical ports pluggable
Supported service types	100GE, 100GE_RS-FEC OTU4 (optional)
Loopback	Support line-side and customer-side loopbacks
ALS	Supports automatic switching off and on of the laser according to the optical signal input
Performance monitoring	Support optical signal-to-noise ratio, pre-correction BER, non-correctable BER block, dispersion compensation, differential group delay and other performance monitoring Support optical module temperature, current, voltage, optical power and other performance monitoring Supports OTU layer and Ethernet layer performance monitoring
Number of slots occupied	Supports all OTNS8600 series chassis, occupies 2 slots
Maximum power consumption	65W (with optical module)

### Notes

For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.

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