

## X86-OTDC

XenOpt X8600 OTDC  
100G Transponder



### Applications

- 100G Ethernet
- 100G OTN

### Features

- Single channel 100Gb transponder
- Signal recovery with 3R functionality (reamplifying, reshaping and retiming)
- On line side it uses standard 100G OTU4 connection with ITU-T G.709 GFEC.
- Full C-band tunable DWDM (line side)
- Use of standard pluggable devices on both sides enable - fast system recovery in case of pluggable device failure
- 100Gb media converter mode support
- Extensive performance monitoring of parameters and services on both sides
- 1+1 facility protection
- Hot replicable Dual AC or DC power supply and fan

### Description

X86-OTDC it converts single channel colorless signals that can be any QSFP28 compatible 100 Gb/s signal like 100Gase-RX4 or 100Gase-LX4 signal to DWDM 100 Gb/s OTN signal with forward error correction on line side. Transponder uses standard pluggable optical modules. On client side it allows use of all standard QSFP28 compatible 100 Gb/s modules. On line side it allows use of 100 Gb/s DCO CFP modules or CFP modules that pass 100 Gb/s service over 4x25Gb/s DWDM wavelengths.

When using with X86-NCP control module in X8600 series chassis allows monitoring of all important parameters of both pluggable devices. The product is energy efficient, takes up little space and can significantly increase network capacity of enterprise and metro networks.

Transponder can be delivered together with wide range of CFP line modules that have unamplified reach of approximately 120 km on standard G.652 fiber and/or up to 1400 kilometers when used with well designed multi stage amplified system.

### Technical Specifications

Parameter	Technical Indicators
Product model	X86-OTDC
Basic function	Supports 1-channel 100Gb transparent transmission and can convert the 1-channel 100Gb Ethernet service signal to a OTU4 coherent DWDM optical signal on single wavelength or 4x25G optical signals on 4 standard DWDM wavelengths
Line side service type	100G Ethernet or 100G OTN with G709 FEC
Occupied slot number	Occupies 2 slots in X8600 series chassis
WDM technology	tunable DWDM in C Band with 100 GHz or 50 GHz channel spacing
3R technology	Supports 3R functionality: Re-amplifying, Re-timing, Re-shaping
Network management function	<ul style="list-style-type: none"> <li>Supports real time monitoring of parameters, including: transmitting optical power and receiving optical power, temperature, etc.</li> <li>Supports port multiple loopback modes and port shutdown</li> </ul>
Client-side interface	Supports one pluggable optical QSFP28 form factor, with LC or MPO type interface: 100GBase-SR4, 100GBase-LR4 or 100Gbase-CWDM
Line side interface	100 Gb CFP (support coherent IPL CFP or 4x25G DWDM CFP)
Typical power consumption	20 W
MTBF	> 100000 hours

### Ordering information

Part number	Product Description
X86-OTDC	XenOpt X8600 OTDC 100G Transponder

**Notes**

<sup>1</sup> For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice.

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