

ClientReach 100G Transponder System

OTS-100x2-1U



Applications

- ▶ 100 Gbps Single Channel & Dual Channel DWDM
- ▶ 100 Gbps Network Extensions for 30 dB Optical Budget



Features

- ▶ Forward Error Correction Lowers OSNR Requirements & Increases Optical Transmission Budget
- ▶ Standard MSA-compliant Line (CFP) & Client (QSFP) Ports
- ▶ CFP with Integrated EDFA Enables Link Distance up to 30 dB
- ▶ Electronic Compensation of Chromatic Dispersion & Polarization-mode Dispersion Extends Transmission Reach

IPG Photonics' Dual 100G OTN Transponder is part of IPG's Optical Services Transport Platform (OSTP) family and offers a cost-effective optical transport solution for high density, high capacity transport. The 1 Rack Unit (1RU) chassis contains two CFP MSA interconnect cages, one for each line interface and two QSFP MSA client interconnect cages, one for each client interface. When paired with IPG's coherent CFP and QSFP, the single line card supports two independent transponder channels.

The 1RU Transponder system has an Optical Supervisory Channel (OSC) to facilitate near-end-to-far end communications between systems. The system is managed via SNMP and accessed through an RJ45 Ethernet DCN connection on the 1RU chassis front panel. A WEBGUI interface is also available via Ethernet connectivity to a simple web browser.

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Optical Characteristics

Supported Client Traffic Formats	100GbE, OTU4
Supported Line Rates (G.709 Mapping), Gbps	OTU4 (111.8), 127.15/ 131.10 (OTU4V1/2)
Supported Forward Error Correction Modes	HGFEC, SDFEC
Line Interface	2xCFP
Client Interface	2xQSFP LR4
Management Interface	SNMP, WEBGUI
Optical Link Budget, dB	30

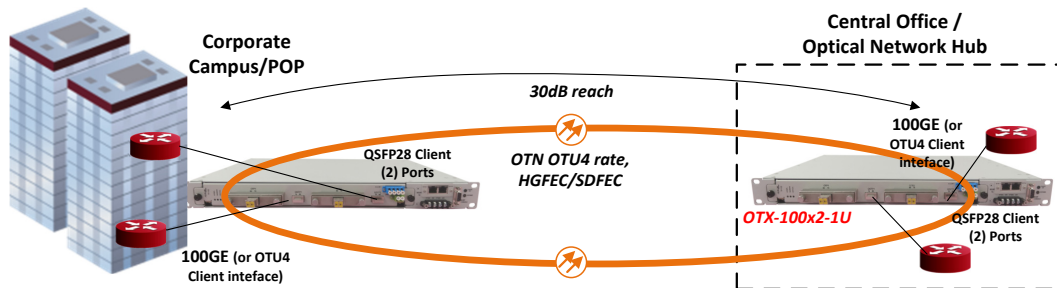
General Characteristics

Management Ports	(2) RJ45 Ethernet, RS-232
End-to-end Management Communications	Optical Supervisory Channel via Separate Internal Wavelength
Software Upgrade	TFTP via TFTP Client

General Characteristics

Power Supply	-36 to -72 VDC (Standard) or 100 to 240 VAC, Dual, Redundant, Hot Swappable
Max Total Power Consumption, W	192
Operating Temperature Range, °C	+5 to +40
Weight, kg	7.9
Overall Dimensions, W x H x D, mm	480.53 x 43.62 x 346

1RU Dual-port Transponder Typical Application



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