

100G OTN Dual Transponder

TP-100



100G Transponder shown in Stand-alone, Self-managed, 1U Chassis



Applications

- ▶ 100 Gbps Single Channel & DWDM
- ▶ 100 Gbps Network Extensions for >25dB Optical Budget



Features

- ▶ Forward Error Correction Lowers OSNR Requirements & Increases Optical Transmission Budget
- ▶ Standard MSA-compliant Line (CFP) & Client (QSFP) Ports
- ▶ Part of IPG's Optical Services Transport Platform (OSTP)
- ▶ 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) and offers a cost-effective optical transport solution for high density, high capacity transport. The 8 Rack Unit (8RU) line card 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 line card is typically mounted horizontally in the OSTP 1RU single blade managed chassis. The horizontal 1RU Transponder system has an Optical Supervisory Channel (OSC) to facilitate near-end-to-far end communications between systems. The 100G Transponder line card is managed via SNMP and accessed through the RJ45 Ethernet DCN connection on the 1RU chassis front panel. An HTML driven 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)	OTU4 (111.8 Gbps), 127.15Gbps (OTU4V)
Line Interface	2XCFP
Client Interface	2XQSFP
Management Interface	SNMP, WEBGUI via HTML

Management Characteristics

Management Ports	(2) RJ45 Ethernet
End-to-end Management Communications	Optical Supervisory Channel

General Characteristics

Power Supply, V	48
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

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