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CTX Series

TPC4

4x100G QSFP28, Transponder Card

Main Features

- Protocol Transparent Transponder
- Support Multi-rate: 100GE, 40G, OTU4
- Layer 1
- Low latency
- Support forward
- Pay-as-you-grow architecture based on pluggable module
- Comprehensive line and service performance monitoring
- Easy maintenance with field-replaceable parts
- Support CLI, Telnet, SNMP GUI NMS Danriver iCEO B/S

Figure 1: TPC4 Transponder Card

Benefits

- Very Low cost Per Gbit
- Managed service platform CTX6600
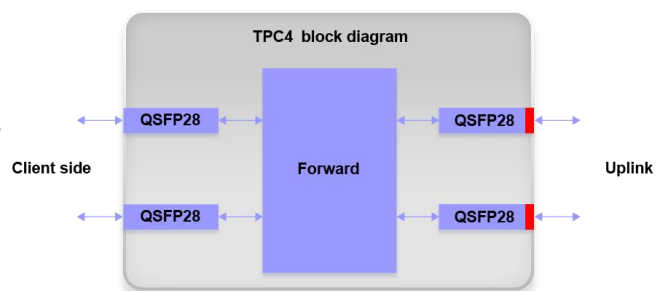- Modular and cost-effective for future growth and maintenanceaccess

Applications

- Enterprise Private Line
- DWDM DCI Networking
- E/O/E Amplification for long reach
- Setting up a demarcation point in an operator's network
- As transponder, repeater or media converter.

Description

In addition to the use as transponder, the TPC4 can also be used as repeater or media converter.

In 100G DWDM configurations where it is not feasible to embed the PAM4 QFSP28 transceivers directly in the switch, or when setting up a demarcation point in an operator's network, the TPC4 2 channel open transponder is the ideal solution. Equipped with PAM4 QSFP28 transceivers, the TPC4 is the ideal product for terminating 100G services in a cost-efficient way at the subscriber premises. The TPC4 has support for 40G with QSFP+ on the client side and line side as well as for 100G with QSFP28 on the client side and PAM4 on the line side. This includes support for any type of QSFP28 client type in a high density (300G in 1U) module at a very low cost per Gbit. TPC4 diagram on the right

Technical Specifications

Transmission Rate and standard	
100GbE	IEEE 802.3ba
OTU4	OTU4
40GbE	IEEE 802.3ba
Other Data Rate	On Request
Client Interface	
Density	2
Protocol	100GbE,OTU4,40GbE
Optical interface	Hot pluggable QSFP28/QSFP+ module
Wavelength	850nm/1310nm/CWDM
Optical Reach	100G QSFP28 SR4/LR4/CWDM4/ER4 Lite/ER4 40G QSFP+ SR4/LR4
Line Interface (Uplink)	
Density	2
Protocol	100GbE,OTU4,40GbE
Optical interface	Hot pluggable QSFP28/QSFP+ module
Wavelength	850nm/1310nm/CWDM/DWDM
Optical Reach	100G QSFP28 SR4/ LR4/CWDM4/ER4 Lite/ER4/ZR4/PAM4 DWDM 80kM 40G QSFP+ SR4/LR4/ER4
Configuration	
Operation mode	Forward
CDR Mode	bypass
Run Mode	Transmitter on, off, Automatic laser shut-down (ALS)
Performance Monitoring	
Visual Indicators	LED status indicators for: client and line ports,STAT of line card
Optical Monitoring	Rx/Tx Port Optical Power, link status etc
OAM	Event logs Alarms
Physical feature	
Dimensions(HxWxD mm)	20x192x223
Weight (kg)	0.3
Package options	Plug-in Card
Platform	CTX6600 I/II/V
Slot assignment	Any slot except for Slot 1
Environment	
Operating Temperature	-5°C to 50°C
Storage	-20°C to 85°C
Humidity	5% ~ 85% RH non-condensing
Power Supply	
Power Input	DC -48V input from backplane
Power Consumption	< 20W
Compliance	
Standards	RoHS 5/6

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