

CTX Series

## TPC2

### 2x100G QSFP28, Transponder Card

#### Main Features

- Protocol Transparent Transponder
- Support Multi-rate: 100GE, 40G, OTU4
- Layer 1
- Low latency
- Support forward and loopback
- 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: TPC2 Transponder Card

#### Benefits

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

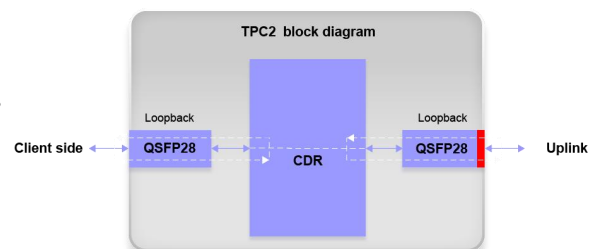
#### Applications

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

#### Description

In addition to the use as transponder, the TPC2 can also be used as repeater or media converter.

In 100G DWDM configurations where it is not feasible to embed the PAM4 QSFP28 transceivers directly in the switch, or when setting up a demarcation point in an operator's network, the TPC2 1 channel open transponder is the ideal solution. Equipped with PAM4 QSFP28 transceivers, the TPC2 is the ideal product for terminating 100G services in a cost-efficient way at the subscriber premises. The TPC2 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. TPC2 diagram on the right



## Technical Specifications

<b>Transmission Rate and standard</b>	
100GbE	IEEE 802.3ba
OTU4	OTU4
40GbE	IEEE 802.3ba
Other Data Rate	On Request
<b>Client Interface</b>	
Density	1
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
<b>Line Interface (Uplink)</b>	
Density	1
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
<b>Configuration</b>	
Operation mode	Forward, loopback
CDR Mode	3R, bypass
Run Mode	Transmitter on, off, Automatic laser shut-down (ALS)
<b>Performance Monitoring</b>	
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
<b>Physical feature</b>	
Dimensions(HxWxD mm)	20x192x223
Weight (kg)	0.35
Package options	Plug-in board
Platform	CTX6600 I/II/V
Slot assignment	Any slot except for Slot 1
<b>Environment</b>	
Operating Temperature	-5°C to 50°C
Storage	-20°C to 85°C
Humidity	5% ~ 85% RH non-condensing
<b>Power Supply</b>	
Power Input	DC -48V input from backplane
Power Consumption	< 15W
<b>Compliance</b>	
Standards	RoHS 5/6