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CTX Series

TPX10

Multi-rate 10x SFP+, Transponder

Main Features

- Protocol Transparent Transponder
- Support any rate up to 25G like 1G to 11.1G, 8G/16G, 25G
- 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 SNMP, GUI NMS Danriver iCEO B/S

Description

In addition to the use as transponder, the TPX10 can also be used as repeater or media converter.

The TPX10 is a high density multilane transponder module for the CTX6600 chassis system. Each TPX10 offers five independent transponders operating from 1G to 25G line rates, enabling 15 x DWDM channels per 1U (or more channels for 2U/5U) for high capacity needs. 40G interfaces can be transported via 4x10G wavelength groups with CWDM or DWDM traffic being supported. The TPX10 is perfect for new xWDM transmission deployments or as part of any modern open Source Hardware initiatives DWDM deployment strategy and can be used with any mux/demux platform compliant to ITU DWDM standard G.694.1 or CWDM standard G.694.2. TPX10 block diagram on the right

Figure 1: TPX10 Transponder Board

Benefits

- Low Latency
- Modular and cost-effective for future growth and maintenanceaccess
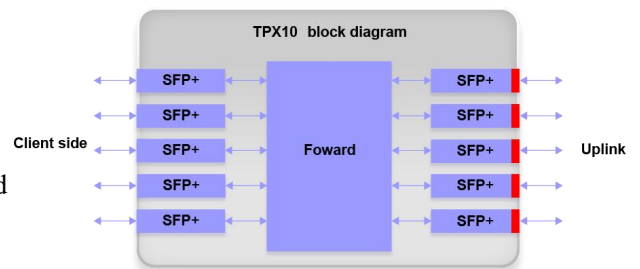- Managed service platform CTX6600

Applications

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

Technical Specifications

Transmission Rate and standard	
OC192/STM64	9.953 Gbps, ITU G.707, GR-253
10GbE	10.312 Gbps, IEEE802.3ae, 10GBASE-LW, 10GBASE-LR
10G FC	10.518 Gbps , draft standard 1200-SM-LL-L, 1200-MX-SN-I
OTU2	10.709 Gbps, FEC, ITU G.709
16G Fiber channel	14.025Gbps
8G Fiber channel	8.5 Gbps FC-PI-4 800-SM-LC-L FC standard
Other Data Rate	On Request
Client Interface	
Density	5
Data Rate	1G to 11.1G, 8G/16G
Optical interface	Hot pluggable SFP/SFP+ module
Wavelength	Gray or color 850nm/1310nm/CWDM/DWDM
Optical Reach	300m/10km/40km/80km
Line Interface (Uplink)	
Density	5
Data Rate	1G to 11.1G, 8G/16G
Optical interface	Hot pluggable SFP/SFP+ module
Wavelength	Color CWDM/DWDM
Optical Reach	300m/10km/40km/80km/120km/combined with Amplifier for long distance
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 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	< 20
Compliance	
Standards	RoHS 5/6

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