

CTX Series

TNX20 for CTX6600 platform

OTN 10G Transponder

Key Features

- OTN 10G Transponder with 20 Ports
- Uplink (Line side) supports OTU2/OTU2e
- Client side supports 10G LAN/WAN, 8G/10G
 FC,STM64/OC192,OTU2, OTU2e
- Fully compliant with ITU-T standard, such as G.709, G.798, etc.
- Standards based ITU-T G709 RSFEC, I.4, I.7
- Supports full C-band DWDM for line side
- Performance Monitoring
- Automatic Laser Shutdown(ALS) for all ports

Applications

TNX20 pluggable board in CTX6600 chassis is Danriver's 10G multi-rate/multi-protocol Transponder for high capacity transport solutions, it allows migration exist various and future services without replacement.



Figure 1: TNX20 Block Diagram





Application Scenarios: |Metro Network Application |Regional Network Application |Data Center interconnection (DCI) |High Capacity and Long Haul Solution

Enterprise Line

DWDM Upgrade

Technical Specifications

Operation Mode	TNX20
Transponder Mode	10x 10G client and 10x 10G uplink
Client port	
Number of port	10
Interface	10xSFP+
Transceiver	Wavelength, Protocol, Distance depend on SFP+
Protocol	Ethernet 10GbE-LAN/WAN SDH/SONET STM64/OC192 Storage 8G/16/32G FC G.709 OTN OTU2,OTU2e
Uplink port	
Number of port	10
Interface	10xSFP+
Transceiver	DWDM SFP+ Fixed or Tunable wavelength
Protocol	OTU2/OTU2e
FEC Feature	
	Regular FEC (G.709)
FEC function	I.4 Super FEC (G.975.1)
	I.7 Super FEC (G.975.1)
FEC gain(dB)	8~9 Max
Protection	
Transmission Protection	SNC/N,SNC/I
Client Side Signal and Mapping Mode	
10GE	10GBASE-R (via BMP) <-> ODU2e
10GE	10GBASE-R (via GFP-F) <-> ODU2
10GE	10GBASE-R (via GFP-F extended payload with preamble) <-> ODU2
STM64/OC192	OC-192/STM-64 (via AMP or BMP) <-> ODU2
8G FC	FC8G (via BMP) <->ODUflex (HW ready)
Performance Monitoring	
Optical module	TX/RX power level, wavelength, temperature

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Data sheet

Ports	OTU Section OTU Far Section ODU Path ODU Far Path OTN FEC Correct error OTN FEC uncorrected error
Optical module	TX/RX power level, wavelength, temperature
Diagnostic test	
Loopback	Facility loopback: local loopback, remote loopback
PRBS test	Supports
Management	
In-band DCN Management	GCC0 on OTU2/2e
	GCC1 or GCC2 or GCC1+2 on ODU2/2e
Environmental	
Operating Temperature	0 to 45°C
Operating Humidity	5 to 95% (non-condensing)
Storage Temperature	-20 to + 70°C
Mechanics	
Card type	Pluggable
Slot assignment	2 adjacent slots vertically, slot 5/6/9/10/13/14/17/18
Platform	CTX6600V
Dimensions (H x W x D mm)	40x192x223
Power Supply	
Card type	Pluggable power supply
Power feed	DC -48V input from backplane
Power Consumption	<90W



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