

**TNC2 for CTX6600 platform**

**OTN 100G Transponder**

**Key Features**

- OTN 100G Transponder with 1x100G line port and 1x 100G client port 1or 2x40G client ports
- Uplink (Line side) supports OTU4
- Client side supports 100GE/OTU4, 40GE/OUT3
- 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



Figure 2: TNC2 Transponder

**Applications**

TNC2 pluggable board in CTX6600 chassis is Danriver’s 100G multi-rate/multi-protocol Transponder for high capacity transport solutions, it allows migration exist various and future services without replacement.

**Application Scenarios:**

- | Metro Network Application
- | Regional Network Application
- | Data Center interconnection (DCI)
- | High Capacity and Long Haul Solution
- | Enterprise Line
- | DWDM Upgrade

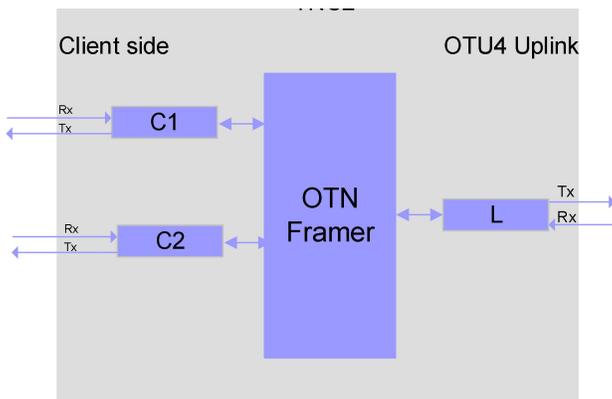


Figure 1: TNC2 Block Diagram

## Technical Specifications

Operation Mode	TNC2
Transponder Mode	1x 100G client and 1x100G uplink
	2x40G client and 1x100G uplink
Client port	
Number of port	1 QSFP28 based 100G port (100G, OTU4) Or 2 QSFP+ based 40G port (40GE, OTU3)
Interface	QSFP28/QSFP+
Transceiver	Wavelength, Protocol, Distance depend on QSFP28/QSFP+
Protocol	100GE/OTU4 40GE/OTU3
Uplink port	
Number of port	1
Interface	1xCFP2
Transceiver	Fixed or Tunable wavelength
Protocol	OTU4
FEC Feature	
FEC function	Regular FEC (G.709) SD-FEC
FEC gain(dB)	8~9 Max with CFP2-DCO
Client Side Signal and Mapping Mode	
100GE	100GE (via GMP) <-> ODU4
OTU4	OTU4 <-> ODU4
40GE	40GE (via GMP) <-> ODU3
OTU3	OTU3 <-> ODU3
<b>Performance Monitoring</b>	
Optical module	TX/RX power level, wavelength, temperature
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
<b>Diagnostic test</b>	

The specifications and information within this document are subject to change without further notice. All statements, information and recommendations are believed to be accurate but are presented without warranty of any kind. Contact Danriver for more details.  
www.danriver.com.cn

@Danriver Technologies Corporation

Loopback	Facility loopback: local loopback, remote loopback
PRBS test	Supports
<b>Management</b>	
In-band DCN Management	GCC0 on OTU4
	GCC1 or GCC2 or GCC1+2 on ODU4
	GCC0 on OTU3
	GCC1 or GCC2 or GCC1+2 on ODU3
<b>Environmental</b>	
Operating Temperature	0 to 45°C
Operating Humidity	5 to 95% (non-condensing)
Storage Temperature	-20 to + 70°C
<b>Mechanics</b>	
Card type	Pluggable
Slot assignment	2 adjacent slots vertically
Platform	CTX6600V
Dimensions (H x W x D mm)	40x192x223
<b>Power Supply</b>	
Card type	Pluggable power supply
Power feed	DC -48V input from backplane
Power Consumption	<90W

The specifications and information within this document are subject to change without further notice. All statements, information and recommendations are believed to be accurate but are presented without warranty of any kind. Contact Danriver for more details.

www.danriver.com.cn

@Danriver Technologies Corporation