

CTX Series

MXP100G for CTX2000 platform

100G Muxponder/Transponder/Regenerator 3-in-1

Key Features

- Muxponder Mode for Aggregation Services 10x8/10G into 100G OTU4 DWDM Line side
- 100G Transponder and Regenerator Mode Optional
- Client side supports 10G LAN/WAN, 8G/10G FC, STM64/OC192, OTU2, OTU2e, 100GbE
- Standards based ITU-T G709 RSFEC, I.4, I.7
- Supports full C-band DWDM and Coherent CFP for line side
- Performance Monitoring
- Remote management with 2x OSCs and 1x1000Base-T port
- Automatic Laser Shutdown(ALS) for all ports

Applications

MXP100G pluggable board in CTX2000 chassis is Danriver's 100G multi-rate/multi-protocol Muxponder/Transponder/Regenerator for high capacity transport solutions, it allows migration exist various and future services without replacement.



Figure 2: CTX2000 Chassis



Figure 3: MXP100GM Muxponder



Figure 4: MXP100GT Transponder

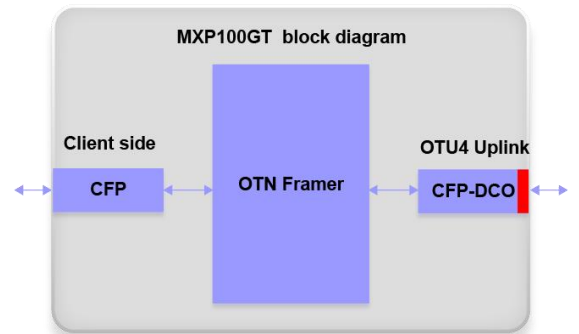


Figure 5: 100GT Transponder/Regenerator

Application Scenarios:

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

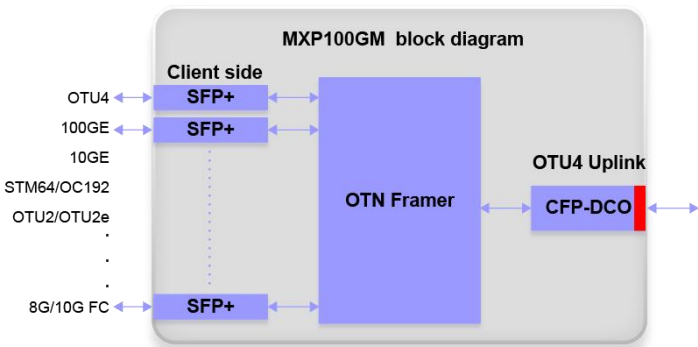


Figure 1: 100GM Muxponder

Technical Specifications

Operation Mode	MXP100G
Muxponder Mode	10x 8/10G client and 1x 100G CFP line side
Transponder Mode	1x100G CFP client and 1x 100G CFP line side
Regenerator	2x 100G CFP Line side
10G Ports	
Number of port	10
Interface	10xSFP+
Transceiver	Wavelength, Protocol, Distance depend on SFP+
Protocol	Ethernet 10GbE-LAN/WAN SDH/SONET STM64/OC192 Storage 8G/10G FC(Fibre Channel FC-800/Fibre Channel FC-1200) G.709 OTN OTU2,OTU2e
100G Ports	
Number of port	2
Interface	CFP
Transceiver	DWDM Coherent CFP, Tunable wavelength
Protocol	100GbE 100G OTN OTU4
FEC Feature(Optional)	
FEC function	10G FEC: RSFEC (G.709 FEC) , I.4, I.7
	100G FEC: RSFEC (G.709 FEC)
	100G Coherent CFP: SD-FEC
FEC gain(dB)	10.8 Max with Coherent CFP
Client Side Signal and Mapping Mode	
100GE	100GE(via GMP) - ODU4 x ODU4 - Line OTU4
OTU4	OTU4 - ODU4 x ODU4 - Line OTU4
10GE	10GE(via BMP) - ODU2E x ODU2E - ODU4 - Line OTU4
OC192	OC192(via AMP) - ODU2 x ODU2 - ODU4 - Line OTU4
STM64	STM64(via AMP) - ODU2 x ODU2 - ODU4 - Line OTU4
OTU2	OTU2 - ODU2 x ODU2 - ODU4 - Line OTU4
OTU2E	OTU2E - ODU2E x ODU2E - ODU4 - Line OTU4
ETH10G_GFP	10GE (via GFP) - ODU2 x ODU2 - ODU4 - Line OTU4
8G FC	8G FC(via BMP) - ODU2 x ODU2 - ODU4 - Line OTU4
10G FC	10G FC(via BMP) - ODU2E x ODU2E - ODU4 - Line OTU4

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Performance Monitoring	
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
Diagnostic test	
Loopback	Facility loopback: local loopback, remote loopback
PRBS test	Supports
Protection	
Line Protection	Work with CTX6600 OPS additional
Management	
OSC out of band	2xOSCs, 1000BaseFx SFP
Ethernet port	1x10/100/1000Base-T,RJ45
Local craft	1xRS232, USB
Management protocol	SNMPv2, CLI(Telnet/SSH), web-based GUI
Environmental	
Operating Temperature	-5 to 50°C
Operating Humidity	5 to 95% (non-condensing)
Storage Temperature	-20 to + 85°C
Mechanics	
Card type	Pluggable
Platform	CTX2000, 1-slot 2RU 19" chassis with pluggable fan card
Dimensions (H x W x D mm)	88 x 437 x 230
Power Supply	
Card type	Pluggable power supply
Power feed	Dual Redundant -48V DC(-36 ~-72VDC) or Dual Redundant 220V AC(80 ~264 VAC); AC Current 1.8A/115VAC, 1A/230VAC; Frequency Range: 47 ~ 63Hz
Power Consumption	240W MAX

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