MX2M8

Muxponder 8xSFP to 2xOTU2 uplink

Main Features

- Layer 1 Muxponder
- Low latency Design
- Up to 8 multi-protocol and multi-rate services aggregation over single or dual OTU2 uplinks
- Service types supported: GbE, OC-3/STM-1, OC-12/STM-4, OC-48/STM-16
- Support multiple FEC(GFEC/I.4/I.7) types
- Support forward, Remote and local loop-back
- Pay-as-you-grow architecture based on pluggable module
- Comprehensive line and service performance monitoring
- Easy maintenance with field-replaceable parts
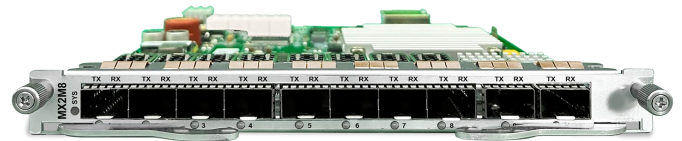- Support SNMP, iCEO B/S NMS

Figure 1: MX2M8 Board

Benefits

- Save cost, very Low cost Per Gbit
- Managed service platform CTX6600
- Modular and cost-effective for future growth and maintenanceaccess
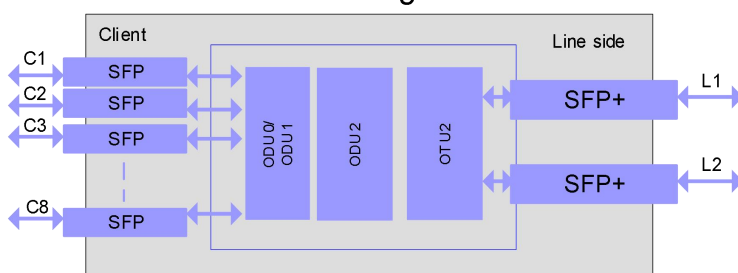
Applications

- DWDM DCI Networking

Description

10G OTN Muxponder board which uses industry-leading Chip technology,fully comply with relevant standards (such as ITU-TG.709, G.798, etc.).

MX2M8 board supports 2-port OTU2 line side interfaces, 8xport any rate up to 2.5G suitable for optical transport network

Block diagram

Technical Specifications

Client Interface	MX2M8
Density	8
Client Formats	STM1/4/16, GE
Optical interface	Hot pluggable SFP
Wavelength	850nm/1310nm/1550nm
Optical Reach	Depend on the optical module
Line Interface (Uplink)	
Density	2
Line side Capacity	10G OTU2
Optical interface	Hot pluggable SFP+
Wavelength	Fixed or Tunable C-Band DWDM, 80 channel
Modulation	NRZ
Optical Reach	Depend on the optical module
FEC	
Line side FEC	Regular FEC (G.709) I.4 Super FEC (G.975.1) I.7 Super FEC (G.975.1)
Gain value	7-9dB
Protection	
Transmission Protection	OCH protection(APS) optional
Client side signal and mapping	
	GE (via TTT+GMP, GMPF) <-> ODU0 <->ODU2 STM-1/STM-4/OC-3/OC-12 (via GMP) <-> ODU0 <-> ODU2 STM-16/OC-48 (via AMP or BMP) <-> ODU1 <->ODU2
Line side signal and multiplex	
	OTU2(OCh)<- >ODU2<- >ODU1<- >ODU0 OTU2(OCh)<- >ODU2<- >ODU1
Performance Monitoring	
Visual Indicators	LED status indicators for: client and line ports,STAT of line card
Optical Monitoring	Optical PM for all all optical ports
PM and alarm monitoring	Support OTN, Ethernet performance and alarm monitoring
OAM	Event logs Alarms
Others	
ALS	Supports
Diagnostic test	
Operation mode	Forward, Remote and local loopback
Test	PRBS
Management	
In-band DCN Management	GCC

Physical feature	
Package options	Plug-in board
Platform	CTX6600 Chassis
Slot assignment	One slot, slot 5/6/9/10/13/14/17/18
Environment	
Operating Temperature	0°C to 45°C
Storage	-20°C to 85°C
Humidity	5% ~ 85% RH non-condensing
Power Supply	
Power Input	DC -48V input from backplane
Power Consumption	< 40
Compliance	
Standards	RoHS 5/6

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