

MXP10Ge-Crypto Muxponder

Up to 20G Layer-1 encryption

Key Feature

- Build in layer 1 encryption AES(Advanced Encryption Standard) each port in 1RU chassis
- Muxponder any data rate traffic to 10G traffic
- 16 SFP ports, support any traffic 125Mbps to 5Gbps
- Support CPRI application, data rate :4.9152Gb/s, 3.072 Gb/s,2.4576Gb/s,1.2288 Gb/s, 0.6144 Gb/s.
- Line side 2xXFP ports, support OC192/10G Lan/OTU 2/OTU2e
- Line side XFP port supports Tri-FEC for maximum network interoperability.
- With different software configuration, one card can work as two 10G Muxponders or one 10G Muxpodner with two 10G ports for network protection etc.

Description

Danriver's 10G Muxponder is a high capacity function card for multi-service provisioning platform (MSPP). One card is with 16 SFP ports and two XFP ports; max can support 20G traffic.

MXP10GE-Crypto is a multi-rate, multi-service high density wavelength division multiplexing (DWDM) transponder, supporting innovative cryptographic capability for 100-2.5G MXP10GE-Crypto provides added security benefit to any DWDM link by encrypting the data transmitting between the sites.

These SFP ports support any-service any-port configurability, can be configured to support OTU 1, OC3/12/48(STM-1/4/16), 100/1000Mbps full duplex Ethernet, Fibre Channel FC-15/25/50/100/200/400, FICON and ESCON, bit transponder clients
@ include DVB-ASI, SD-SDI, HD-SDI, DV6000 etc.



Figure 1: MXP10Ge-Crypto Muxponder

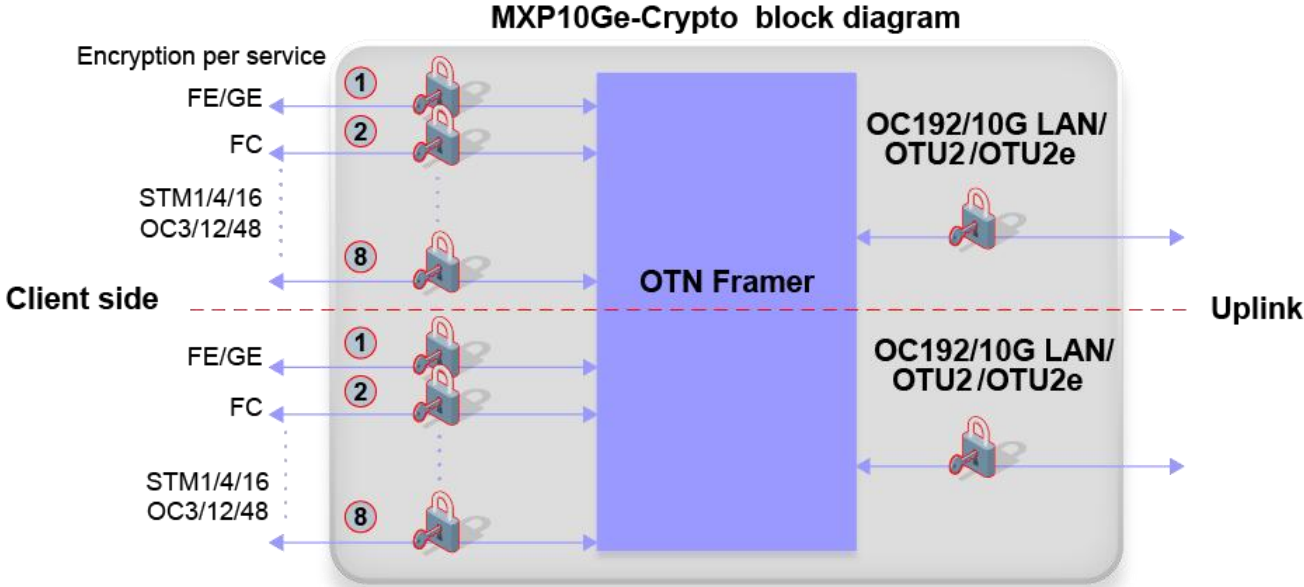
Two XFP port can be independently configured for OC192, 10G Lan, OTU 2 or OTU 2e, can work independent to support two 10G traffic or configure as one working port and one protection port for one 10G traffic.

Benefits

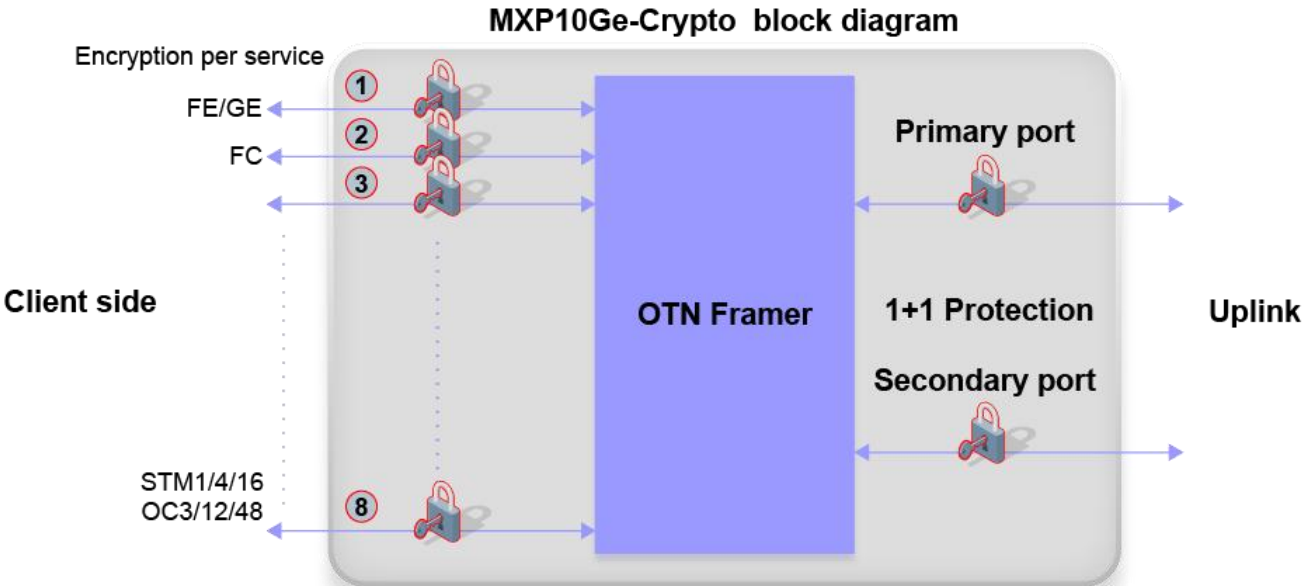
- Supports encryption over fiber
- Layer-1 Low latency
- Secured solution ensuring data integrity(ensuring that the message has not been altered), confidentiality(preventing disclosure of information to unauthorized parties) and authentication(validating that both parties involved are who they claim to be)
- Complete DWDM optical layer solution

Typical Applications

- 2-in-1 Muxponder card



- One muxponder with uplink protection



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Technical Information

Line side	
Port Density	2 x XFP ports, hot-pluggable
Data Rate	9.95Gbps-11.1Gbps
Protocol	OC192/ 10G LAN/ OTU 2 / OTU 2e
Wavelength or Distance (<80km)	Choose XFP separately
Distance >80km	Require Optical Amplifier and/or Dispersion Compensation
Client side	
Port Density	16x SFP ports, hot-pluggable
Data Rate	125Mbps-5Gbps
Protocols	STM-1/4/16; OC-3/12/48
	Ethernet 100/1000Mbps
Wavelength or Distance (<80km)	Fiber channel FC-15/25/50/100/200/400
	Bit transparent clients: DVB-ASI, SD-SDI, HD-SDI, DV6000
Distance >80km	CPRI data rate :4.9152Gb/s,3.072Gb/s,2.4576Gb/s,1.2288 Gb/s,
	0.6144 Gb/s.
	Choose SFP separately
	Require Optical Amplifier and/or Dispersion Compensation
Cryptography	
Crypto Algorithm	AES-256
Crypto Services	100M~2.5G
Management	
Ethernet port	10/100Base-T
Local management	RS232
Operating Conditions	
Operation Temperature	- 10 to + 60 °C
Storage Temperature	-40 to +70°C
Humidity	5 to 85% non-condensing
Mechanical	
1RU 19" Rackmount	44x 437 x 250 (H x W x D, mm)
Power Supply	
Power Type	Dual -48V DC Redundancy
Power Consumption	<80W

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