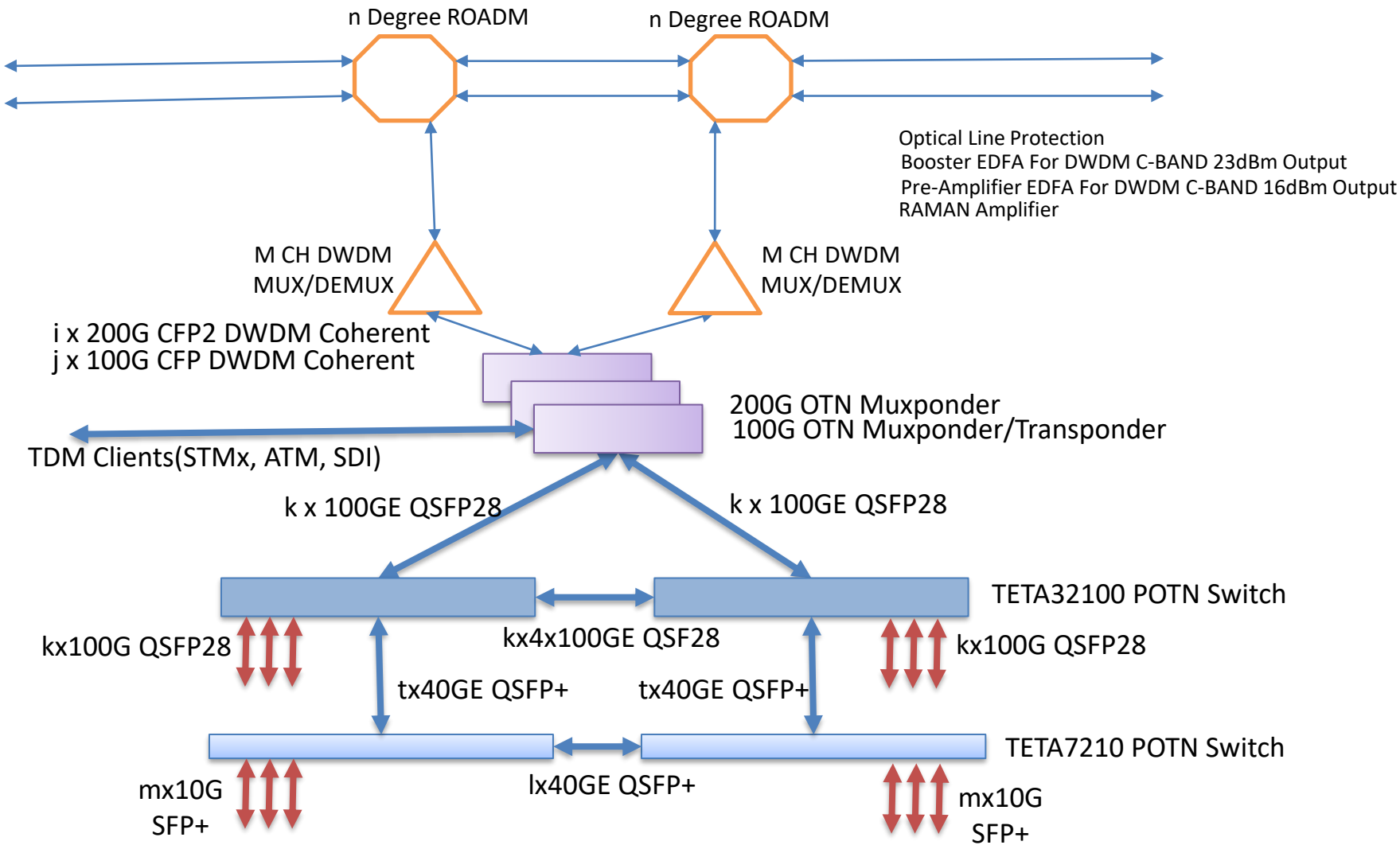
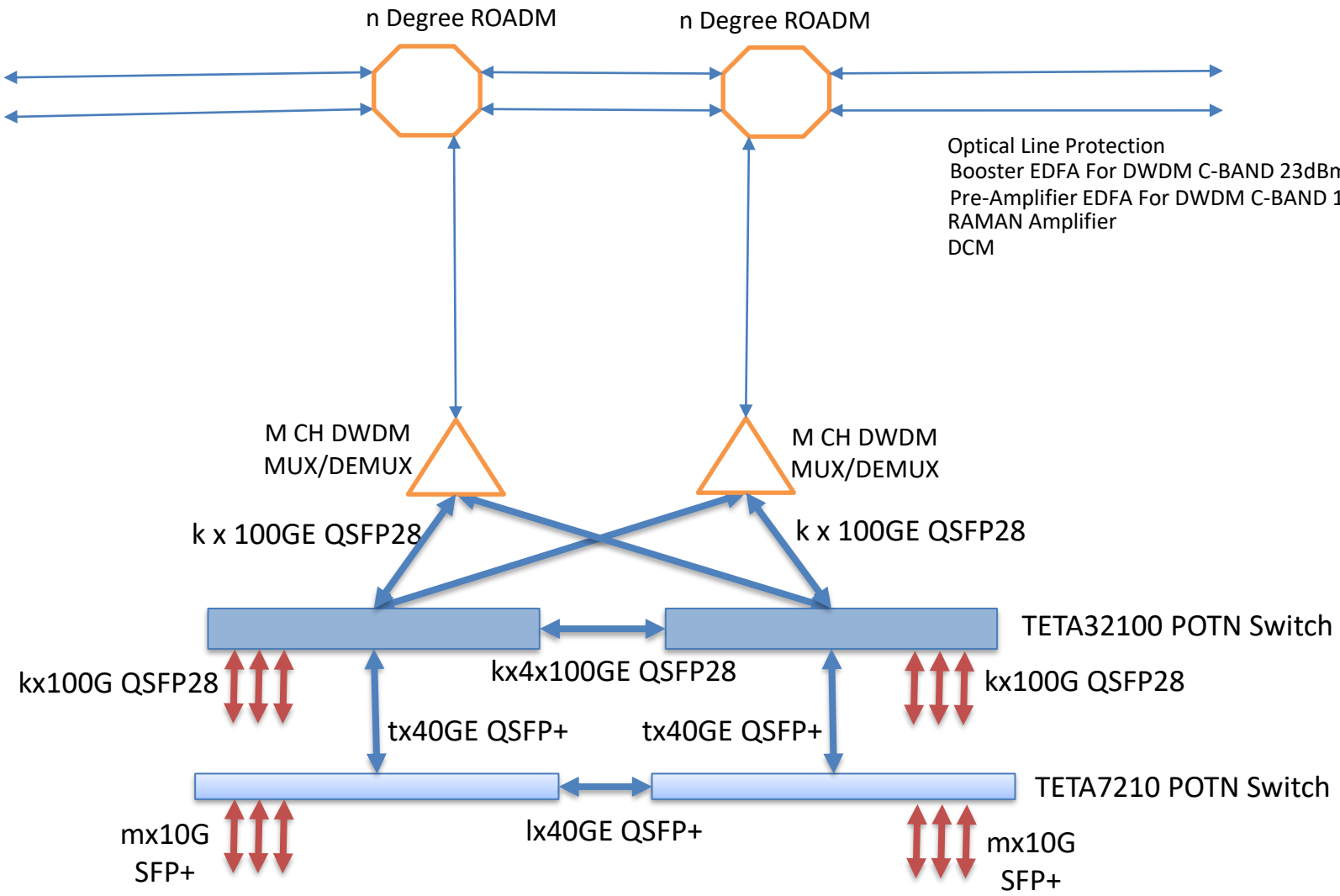
TETA POTN Solution

TETA – POTN - Solution



TETA – IPoWDM - Solution



TETA7210 POTN Switch Specifications

ASIC	720Gbps Broadcom Trident2 BCM56854 switching silicon
Forwarding performance	1071 Mpps: 48x10G + 6x40G
Processor	Intel Atom 2558 (4 core)
RAM	8GB DDR3
HDD	64GB M.2 SATA SSD
Latency	less than 700 ns (PHY-less)
Power supply	Redundant 1+1 power, DC/AC power option available
Cooling	Redundant N+1 cooling

TETA32100 POTN Switch Specifications

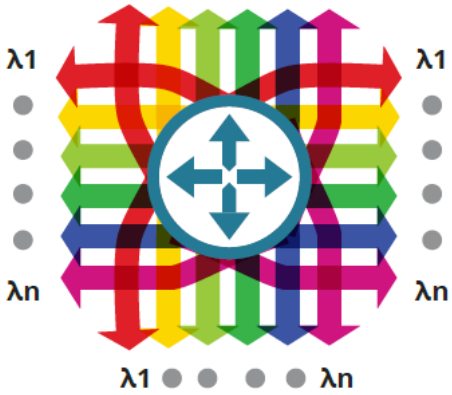
ASIC	3.2Tbps Broadcom Tomahawk BCM56960 switching silicon
Forwarding performance	4400 Mpps: 32x100G
Processor	Intel Atom 2558 processor (4 core)
RAM	8GB DDR3
HDD	64GB M.2 SATA SSD
Latency	less than 500 ns (PHY-less)
Power supply	Redundant 1+1 power, DC/AC power option available
Cooling	Redundant N+1 cooling

Shelves

9U Shelf

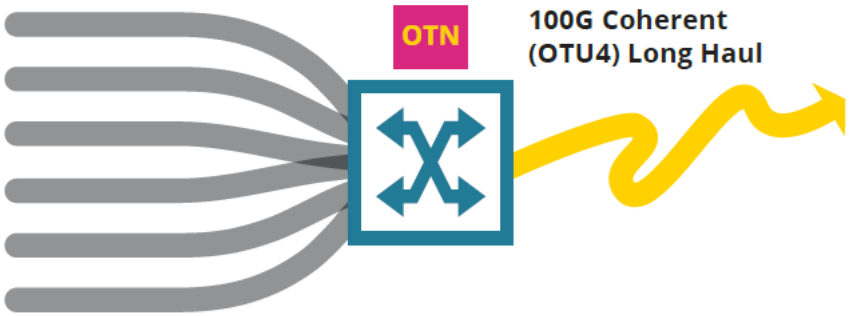
6U Shelf

3U Shelf



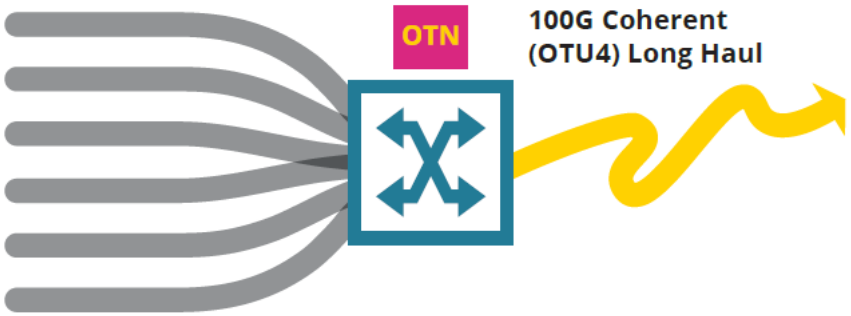
ROADM 1x9

- Re-configurable add-drop nodes of up to nine dimensions.
- Creates the ability to add-drop any wavelength from/to any port, giving maximum flexibility in wavelength allocation.
- Dynamic selection of add-drop wavelengths per port enables hitless topology changes.
- The add ports use a wavelength selective switch (WSS) to dynamically select which of the 96 DWDM channels on the ITU-T 50 GHz C-band grid to add to the line signal for each add port.
- An optical coupler is used to distribute the incoming line signal to the drop ports. One of the drop ports has a lower optical loss, optimized for the local drop. A DWDM add-drop filter or mux/demux unit (MDU) is used for locally terminating traffic.



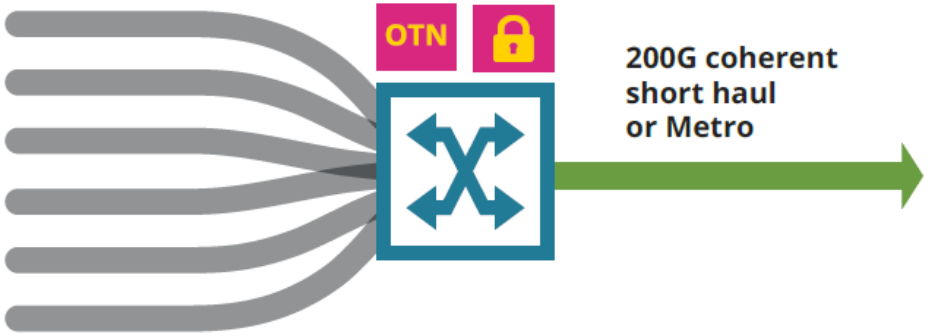
MUXP-10X-100G

- Interfaces
  - 1*100G line side port (CFP)
  - 10*10G client side ports (SFP+)
- Description
  - The signal of client side (10GE, STM-64/OC-192) is mapped to ODU2/2e
  - The signal of line side is de-multiplexed from ODU4 to ODU2/2e and then connected to the client side
  - 100G signal of system side supports G.709 universal FEC or Soft-Decision FEC
  - 10G OTU2/2e supports I.4 and I.7 EFEC, or G.709 universal FEC
  - Support GCC0, GCC1, GCC2 in-band management
  - Support SNC/I, SNC/N transmission protection



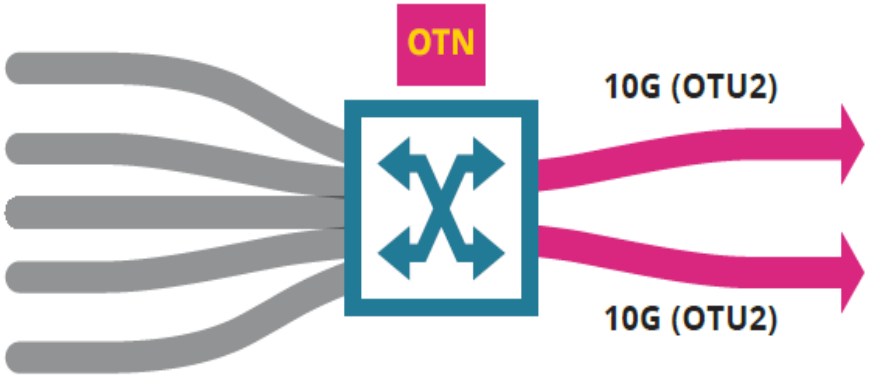
MUXP-2YQ-100G

- Interfaces
  - 1*100G line side port (CFP)
  - 1*100G(QSFP28) or 2*40G(QSFP+) client side ports
- Description
  - The signal of client side 100G (100GE or OTU4) is mapped to ODU4
  - The signal of client side 40G (40GE or OTU3) is mapped to ODU3
  - The signal of line side is terminated into ODU4 or ODU3 and then connected to the client side
  - 100G signal of line side supports G.709 universal FEC or Soft-Decision FEC
  - Support GCC0, GCC1, GCC2 in-band management
  - Support SNC/I, SNC/N transmission protection



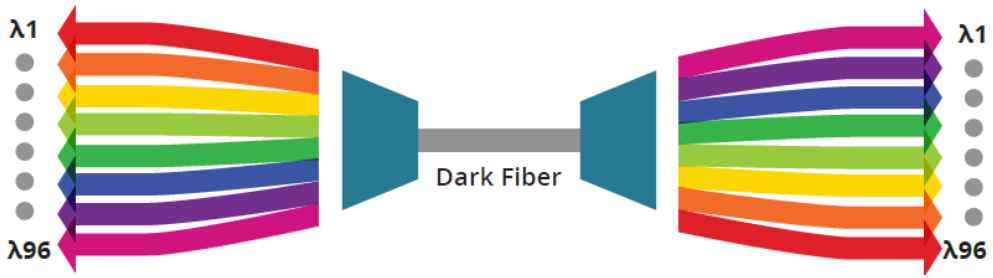
MUXP-5YQ-200G

- Interfaces
  - 100G/200G line side port (CFP2)
  - 2*100G(QSFP28) or 4*40G client ports (QSFP+) or 20*(4x5) 10G client side ports
- Description
  - The 100G signal of client side (100GE or OTU4) is mapped to ODU4
  - The 40G signal of client side (40GE or OTU3) is mapped to ODU3
  - The 10G signal of client side 10G (10GE, STM-64/OC-192) is mapped to ODU2/2e
  - The 100G signal of line side is de-multiplexed to ODU2/2e or ODU3 from ODU4, and then connected to the signal of client side
  - The 200G signal of line side is de-multiplexed to ODU4 from ODUC2, and de-multiplexed to lower ODU2/2e or ODU3, and then connected to the client side
  - The 100G line side signal line side supports G.709 universal FEC or Soft-Decision FEC
  - The 200G line side signal supports Soft-Decision FEC
  - 10G OTU2/2e signal supports I.4 or I.7 EFEC, or G.709 universal FEC
  - Support GCC0, GCC1, GCC2 in-band management
  - Support SNC/I, SNC/N transmission protection



MUXP-16M-2X

- Interfaces
  - 2*10G line side ports (XFP)
  - 16*2.5G or arbitrary lower rate client side ports (SFP)
- Description
  - The signal of client side (GE/FE, STM-1/4/16, OC-3/12/48 low speed signal) is mapped to ODU0 or ODU1
  - The signal of line side is de-multiplexed to ODU0 or ODU1 from ODU2 and then connected to the client side
  - 10G OTU2/2e supports I.4 and I.7 EFEC, or G.709 universal FEC
  - Support GCC0, GCC1, GCC2 in-band management
  - Support SNC/I, SNC/N transmission protection

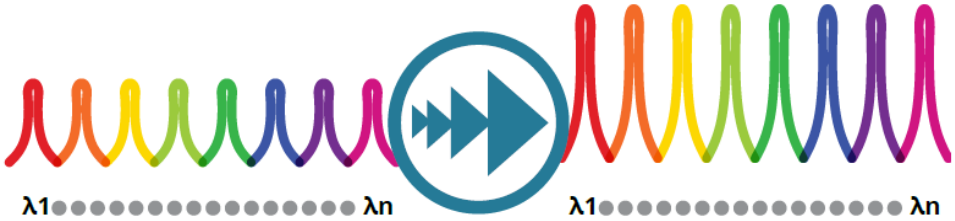


MUX/DEMUX

- OMD
  - MUX/DEMUX card, semi slot
  - Support 2/4/8/16/18 channels C/DWDM MUX/DEMUX
  - Support cascade ports for channel expansion

- OMD40
  - 40 channel DWDM MUX/DEMUX card, complete slot
  - Channel spacing 100GHz,C band

- OMD80
  - 80 channel DWDM MUX/DEMUX card, dual complete slot
  - Channel spacing 50GHz,C band



Optical Amplifier

- Booster
- Pre-Amplifier

- EDFA1
  - One stage EDFA card, semi slot
  - Support VOA gain adjustable
  - Support OSC monitoring channel interface
  - Support MON monitoring interface

- EDFA2
  - Two stage EDFA card, semi slot
  - Support VOA gain adjustable
  - Support serial connect DCM between the 2 stages
  - Support OSC monitoring channel interface
  - Support MON monitoring interface

Others

- OLP
  - Optical line protection card, semi slot
  - Support 1+1 , 1:1 protection
  - Support manual, automatic, and mandatory work modes
  - Support power off locking and light off locking
  - Support panel key button switch

- SC
  - System control card (1+1 backup)
  - 2 optical interfaces and 2 electric interfaces
  - Support SNMP protocol

Software: Control Plane, Management Plane