

eWAVE2108

Cost Effective Multiple Rate WDM Transmission Platform

WDM TRANSMISSION

MAIN FEATURES

- 8 channel of multiservice transmission
- 1Gb/s to 40Gb/s
- 3R (CDR) for all channel
- 1+1 Optical channel protection
- 1+1 OLP protection
- Configurable LLF
- Configurable Tx Sync
- Point to point, ring and stacking topology
- Hot pluggable SFP/SFP+
- EDFA for amplification
- Pluggable power supply
- Pluggable fan tray
- Pluggable dust filter

SYSTEM INTERFACES

- 8 x User Ports
- 2 x OSC Channel
- 1 x Mux/Demux Card
- 2 x EDFA Slot
- 1 x Console Port
- 1 x Office Alarm
- 1 x Management Port



eWAVE2108 is a cost effective, 1 RU chassis and multi-service WDM transmission platform which provides 8 wavelengths for point to point application, or 4 wavelengths ring application per device, more wavelengths application is possible by stacking multiple boxes at each location. Each channel port supports bit rate from 1Gb/s to 10Gb/s. It integrates 3R (CDR) for every channel to get better performance. LLF and TX sync functions are also supported, and can be configured by software. It supports 1+1 optical channel and optical line protection. It is stackable for future expansion. eWAVE2108 complies with standard of ITU G.709, FCC, RoHS and VCCI.

Network Management System

The system is managed with multiple standard protocols such as Web Graphic User Interfaces (GUI), CLI and SNMP. These can be accessed either through RS232 or Telnet via TCP/IP. User can configure and monitor the system remotely. This also allows eWAVE2108 to be easily integrated into existing EMS system as a plug-in network element.

Unique Features: Pluggable fan tray, pluggable dust filter, pluggable power supply, integrated EDFA slot, integrated OLP (optical line protection) module, office alarm port.

Simplest support 40G

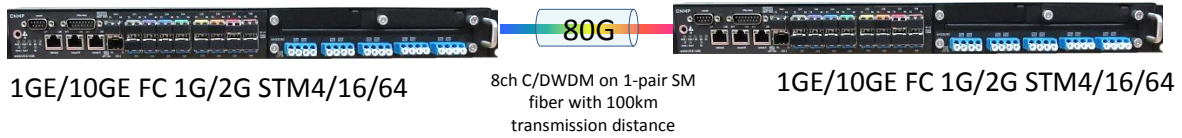
40G signal can be transmit over eWAVE2108 by using MPO-4LC patch cords. It's convert the QSFP+ interfaces to four 10 GE interfaces when connecting to a SFP+ port. This solution is ideally suited to metro infrastructure, enterprise, and carrier-managed services applications.



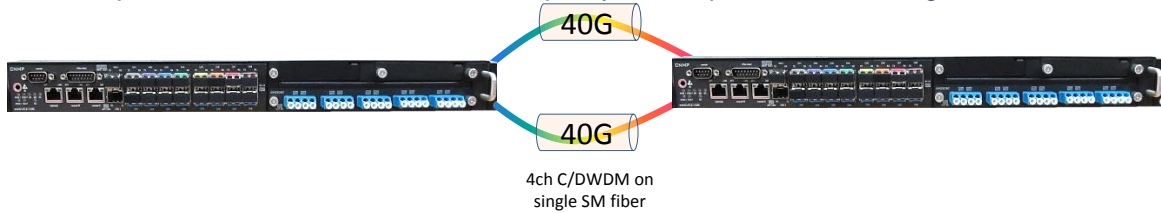
Application Example 1:

- Multi rate application on between two Data Center (Ethernet, SDH/SONET, Fiber Channel and etc)

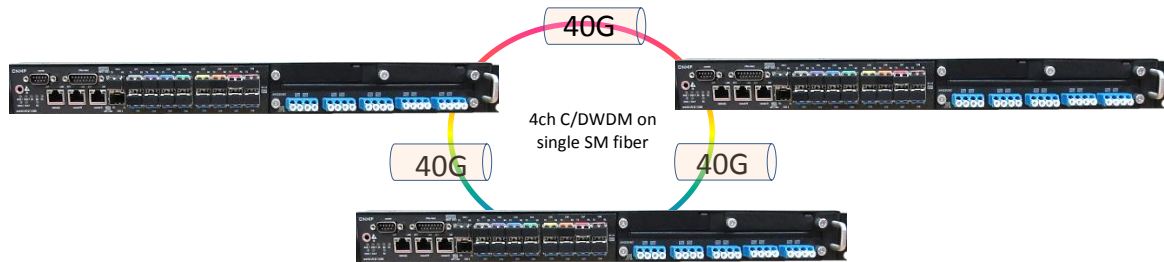
- Point to point with maximum transmission capacity of 80G; in dual fiber dual direction



- Point to point with maximum transmission capacity of 40G per fiber route; single fiber bi-direction

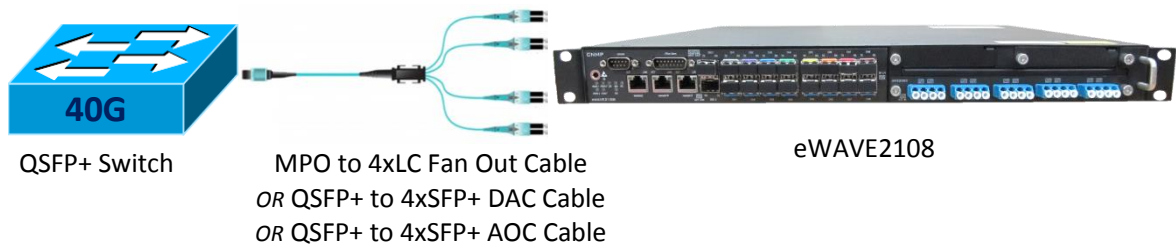


- Ring with maximum transmission capacity of 40G per fiber route, single fiber bi-direction



Application Example 2:

- 40G Solution with DAC/AOC/Fan out Cables



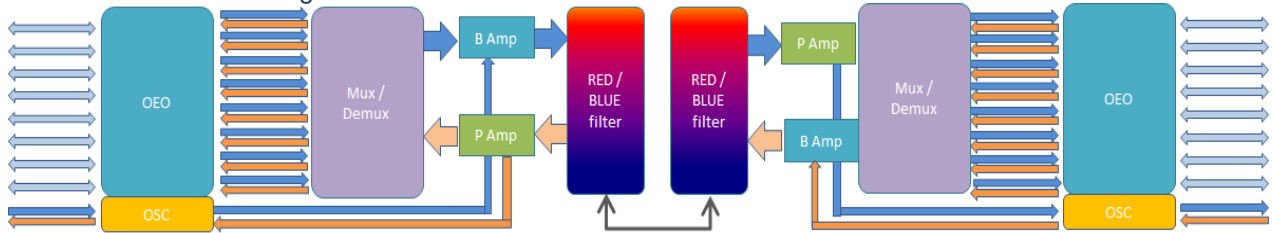
Application Example 3:

- Multi-rate media converter solution

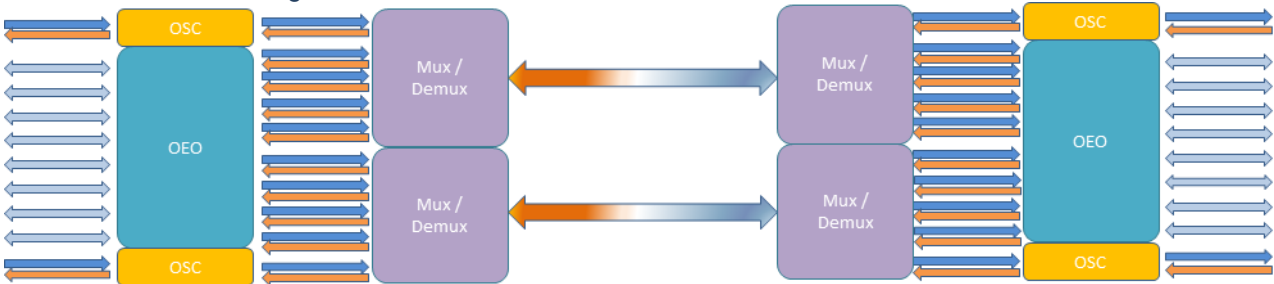


Block Diagram:

■ DWDM 8 channel Single fiber bi-directional



■ CWDM 4 channel single fiber bi-directional * 2



Technical Specification:

Transmission Rate	
SDH /SONET	STM-16 /STM-64 · OC-3/OC-12/OC-24/OC-48 /OC-192
Ethernet	1GbE /10GbE (LAN/WAN)/40GbE SR4
OTU	1G /2G/4G/8G/10G CPRI2/4/5/10 · OBSAI1/2/4/8 OTU1/OTU2//OTU1e/OTU2e/G.975FEC
SH	
Number of SH Port	Maximum 8 (SFP/SFP+)
Wavelength	850/1310/1550nm
LH	
Number of LH Port	Maximum 8 (SFP/SFP+)
Wavelength	CWDM/DWDM/BidiWDM
Transmission Rate	Maximum 80G
Management Interface	LAN(RJ45)*OSC(SFP LC)/RS232C(DB9)
Monitoring Protocol	SNMP/syslog/telnet/arp/icmp/Web GUI
Mux/DeMux* oW2208DB-U	DWDM 8ch Point to Point: Single fiber bi-directional
Mux/DeMux* oW2204DB-R	DWDM 4ch Ring: Single fiber bi-directional x2
Mux/DeMux* oW2204CB-R	CWDM 4ch Ring: Single fiber bi-directional x2
Pre-EDFA* oW4312RP	Maximum +12dBm power, Gain 20~30dB, OSNR 6dB@25dB
Boost EDFA* oW4317RB	Maximum +17dBm power, Gain 12~18dB, OSNR 6dB@15dB
Power Supply	100~240VAC:50~60Hz OR 48VDC
Temperature	Working 0~50°C: Storage -40~85°C
Power Consumption	<100W
Dimension	440(W)x393(D)x44.4(H)mm
Weight	7.5kg
Certificate	VCCI: Class A/CE: EN55022,EN55024,EN61000-3-2,EN61000-3-3/FCC: part 15 B
Remark	* Selective item based on network application