OAN-CXSP

Telco Grade Server/100G Ethernet Switch Platform

Description

OPNET's OAN-CXSP, the most compacted telco grade server/100G Ethernet switch, is designed for the critical service systems, such as enterprise network of the data service providers and closed network (fixed and wireless networks) of communication service providers.

Comparing with current 1U height chassis commercial of the self, OAN-CXSP supports two individual 100G Ethernet switches with 1.5U height, 30cm depth, and rack-mountable chassis.

With flexible hardware design, OAN-CXSP can be configured as multi applications:

- Two individual 100G Ethernet switches
- One fully telco grade 100G Ethernet switch with 1:1 hardware & software redundancy
- Integrated with OLT Dongle to be configured as 10G XGS-PON OLT
- Light multi-access edge computing (MEC)

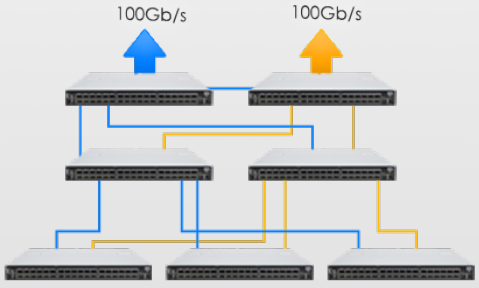
Characteristics of OAN-CXSP:

- 1.5U height chassis compact-size with all front access and hot-swappable to meet telco grade request
- Two 100G Ethernet Switches with common dual powers, fan module, management port, Alarm I/O ports and IEEE1588v2 timing
- High capacity switch fabric: Marvell Cygnus2, 710 Gbps switch capacity.
- Two line interface units with eight 10G Ethernet ports / unit.
- High performance MPU: Intel Broadwell D1517.
- High service reliability
- Fast H/W or S/W protection switching within 1ms.
- Support IEEE1588v2 1-step / Sync. Ethernet timing (option, 2021H2)
- EMS Management

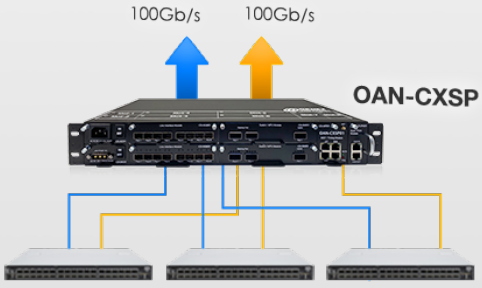
Application

Fully redundancy

- Less devices requirement for the redundancy, single device vs. multi devices deployment, cause to reduce the cost, and save power consumption
- Less installation space request
- Less optical lines (for interconnection between devices) request
- Support fully 1:1 protection including hardware and software automatically.



White Box for High Availability Redundant Network Solution for Data Center



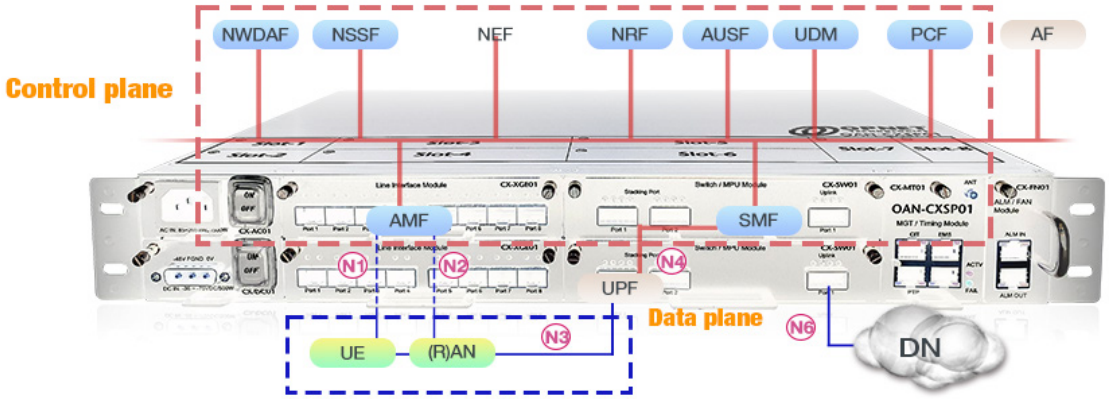
OAN-CXSP for High Availability Redundant Network Solution for Data Center

OAN-CXSP

Telco Grade Server/
100G Ethernet Switch

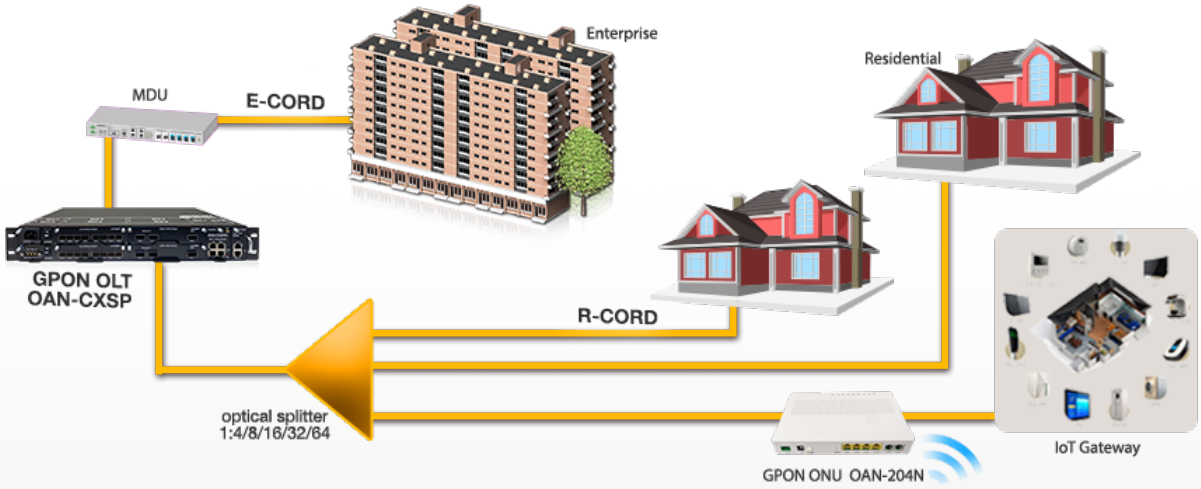
Private mobile network - 5G Core

- 5G Core Software: the third party, e.g. Institute for Information Industry, III
- Supported Network Function: AMF / SMF / UPF / AUSF / UDM / PCF / NEF
- 3GPP R15 Compliance

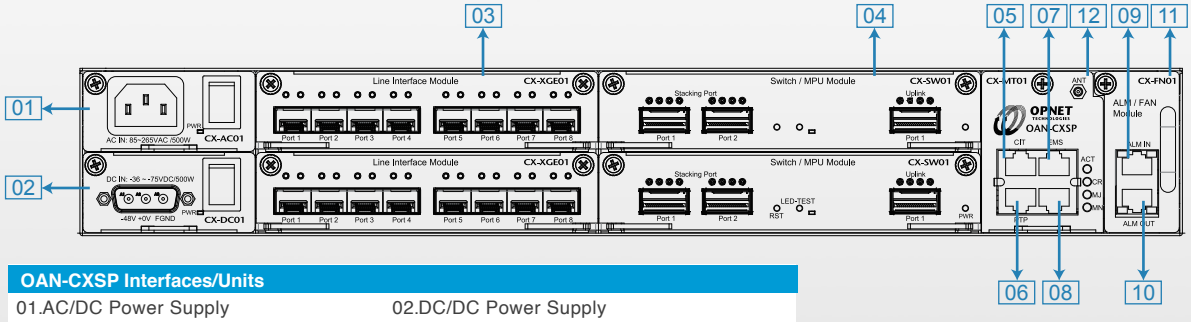


10XGS-PON OLT

- 10XGPON OLT Dongle, partnered with TiBit Communications Inc.
- Compliant to vOLTHA



Interface



OAN-CXSP Interfaces/Units	
01.AC/DC Power Supply	02.DC/DC Power Supply
03.Line Unit: 8 10G SFP+ ports	04.Switch/MPU Unit: 3 100GG QSFP28 ports
05.CIT: RJ-45 port	06.Timing Input, RJ-45 port
07.EMS: RJ-45 port with RS232 interface	08.Reserved
09.Alarm Input: RJ-45 port	10.Alarm Output: RJ-45 port
11.Fan Tray (4 fans)	12.GPS Antenna: SMB port

Hardware Architecture patent pending:
Taiwan: 108123680 (Jul. 4, 2019) / 109139462 (Nov. 11, 2020)
China: 201910600755.8 (Jul. 4, 2019) / 202011252974.0 (Nov. 11, 2020)

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