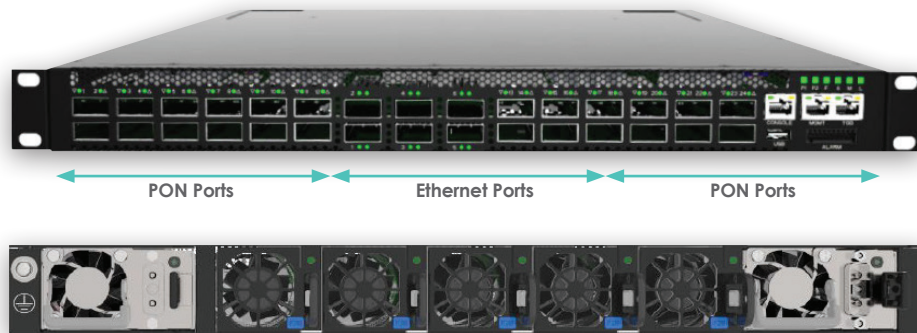


openOLT



Overview

CO-OLT24XG-PON is a powerful next generation 1RU PON access platform designed for remote terminal (RT) and/or central office (CO) applications.

It is a programmable system with FPGA-based 10G PON MAC and high performance NPU, focused on vOLTHA Infrastructure deployment. It supports symmetric 24 X 10Gbps XGS PON access connectivity in downlink and 6 X 100Gbps in uplink. This is an Open Networking Foundation R-CORD and SEBA compatible system.

- 24 x XFP XGS-PON downlink port, running G.9807.1 10G PON MAC
- 6x QSFP28 10/25/40/100G Ethernet port for uplink
- Providing non-blocking, 10Gbps symmetric bandwidth to each PON port with low latency
- Support native IPv6 and dual stacked IPv4/IPv6
- GEM mode only
- Up to 256 ONTs per XGS-PON MAC
- Up to 64K GEM ports per PON port
- Up to 8K services per PON port
- Timing synchronization from in-band IEEE 1588v2 or timing input port
- ToD synchronization per G.989.3 for XGS-PON
- Deep packet buffers for high-speed packet processing
- Flexibility to define a wide range of match-action table processing (OpenFlow 1.3+ multi-table pipelines)
- Interop with various SDN controllers (OpenDaylight and ONOS) to program match-action tables in real-time via the out-of-band OpenFlow 1.3+ channel
- Guaranteed fast failover (link or device) by supporting large number of flow mod/sec
- High-performance processor to ensure device's stability and OpenFlow control plane performance
- Intel processor to running ONIE and ONL (Open Network Linux) and capability of supporting optional guest VM for applications on the same hardware
- Field replaceable redundant power supply, with both DC and AC options
- Field replaceable N:1 protected FANs
- IEEE 1588v2 or timing input port

Specifications

Dimension (W x H x D)	484mm x 44.4mm x 500mm {19.05" x 1.74" x 19.68"}
Uplink ports	6 X 100Gbps, QSFP28
Downlink ports	24 X 10Gbps, XFP
Switching capability	840Gbps
Power supply	Ac: 90~260v Dc: -48v
Power redundancy	1+1 hot swappable
Power consumption	450W
Weight	10KG

Features

PON	<ul style="list-style-type: none"> • G.9807.1 Compliant • High splitter rate, each PON port supports up to 256 ONUs Up to 8K GEM ports per PON port • Multiple ONU authentication methods, SN, PON password, SN+PON password • Support of DBA 	
L2	VLAN	<ul style="list-style-type: none"> • Support of two VLAN tags: S-VID and C-VID. These 2 VLAN tags allow 16M services defined in theory • Support of three service models defined in TR-156: 1:1, N:1, TLS • Support of QinQ based on port or service flow • Support of VLAN add, remove, translate per ONU service flow based
	QoS	<ul style="list-style-type: none"> • Support of rate-limit based on port or self-defined service flow • Support of priority remark based on port or self-defined service flow and provide 802.1P, DSCP priority and Remark • Support of QoS scheduling based on port and self-defined service flow
	Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 and MLD proxy • Multiple multicast service VLANs or SSM • Fast leave • Up to 4096 active multicast groups
Switching	<ul style="list-style-type: none"> • Learn and processing up to 192K MAC addresses • Both traffic grooming and hair-spin switching 	
Security	<ul style="list-style-type: none"> • DHCP Option82 • MAC/IP Anti-spoofing • ICMP/IGMP Anti-spoofing 	
Management	<ul style="list-style-type: none"> • Integrated with VOLTA running at cloud • CLI (Command Line Interface) • NETCONF • SNMP traps 	