Universal All-PON Platform
UAPOLT16

Product Description:

The UAPOLT16 is a small size (1RU), high bandwidth fiber access Optical Line Terminal (OLT) for next generation networks. It incorporates 4 x 100G/40G QSFP28 uplink ports with console/management USB front panel ports that support 100G and 40G operation modes, as well as being configurable as 4 x 25GbE or 4 x10 GbE modes using DAC breakout cables. The downlink has 16 x 10G XGS-PON XFP ports that operate at wire-speed by default and support standard XGS-PON transceivers. The UAPOLT16 has redundant hot-swappable PSUs and fans and is available with a front-to-back or back-to-front airflow direction. This open network switch is loaded with the "Precision OT software"

Product Features:

- Cost-effective hardware for communication service providers.
- Uplink: 4 x QSFP28 ports, each supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables 2 x 50 GbE, 4 x 25 GbE, or 4 x 10 GbE
- Downlink: 16 x 10G XGS-PON XFP ports
- Layer 2 or Layer 3 forwarding at 300 Gbps (full duplex).
- Supports hot/cold aisles with front-to-back airflow SKU.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant AC or -48V DC PSUs.
- 5+1 redundant, hot-swappable fan modules.
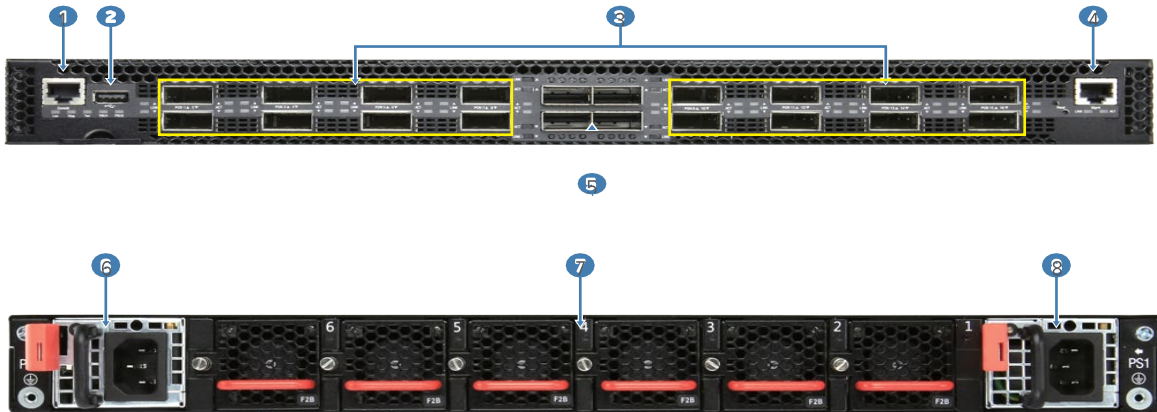- Hardware switch pre-loaded with "Precision OT PON software"

Product Applications:

- High Speed Internet Access (HSIA)
- Video on Demand (VoD)
- IPTV Services
- VoIP Support
- Business Access
- Cell-Site Backhaul

Standards:

- Regulatory Compliance
- Safety Compatibility CB
- UL/CU/NRTL CCC
- EMI
- CE Mark EN55022 Class A EN55024 EN61000-3-2 EN61000-3-3
- FCC Part 15 Subpart B Class A
- VCCI Class A
- CCC
- Environmental Compliance Vibration: GR-63-CORE *
- Shock: GR-63-CORE, GR-1089-CORE *
- Acoustic Level: 78 dB sound power at 26°C (*Compliance. Certification to pay by request)
- RoHS-6 Compliant
- Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

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Interfaces

1. 1 x RJ-45 console port	5. 4 x 40/100G QSFP28 ports
2. 1 x USB2.0 Type A storage port	6. PSU2
3. 16 x XFP XGS-PON ports	7. Hot-Swappable 5+1 redundant fans
4. 1 x RJ-45 management port	8. PSU1

General Specifications

Ports
- Downlink support
- 16 port XGS-PON
- Uplink support
- 4 x QSFP28 100 GbE

Management
- 1 x RJ-45 serial console
- 1 x RJ-45 100/1000BASE-T management 1 x USB Type A storage

Performance
- Switching Capability: 300 Gbps
- Jumbo frames support up to 9 Kbytes
- Packet Buffer Size: 32 K programmable wire-rate queues

Physical and Environmental
- Dimensions (WXDXH): 438 X 609 X 43.5 mm (17.3 X 23.9 X 1.7 in)
- Weight: 10 kg (22.04 lb)
- Fans: Hot-swappable 5 + 1 redundant fans
- Operating Temperature: 5°C to 40°C (41°F to 104°F)
- Storage Temperature: -40°C to 40°C (-40°F to 104°F)
- Operating Humidity: 5% to 85% non-condensing

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LEDs

- QSFP28 Port LEDs: Link Status, Activity, Rate
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: Diagnostic, Locator, PSU and Fan Status

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC or 48 VDC* Input Voltage: 90 to 240 VAC at 50-60 Hz or -36 to -72 VDC
  *future release

Product Ordering Information

Base model: UAPOLT16; Intel® Xeon® D-1518 Processor, 16 x XGS-PON ports, 4 x 100 GbE QSFP28 ports
Precision OT software

Part Number	PSU	Airflow	Region (power cord)
OP-XGS-OLT16X-48V	Dual 48 VDC PSUs	Port-to-Power airflow	NA
OP-XGS-OLT16X-ACU	Dual AC PSUs	Port-to-Power airflow	NA
OP-XGS-OLT16X-US3	Dual AC PSUs	Port-to-Power airflow	N. America
OP-XGS-OLT16X-EU3	Dual AC PSUs	Port-to-Power airflow	EU
OP-XGS-OLT16X-UK3	Dual AC PSUs	Port-to-Power airflow	UK