

## GPON - 4 / GPON - 8

GPON OLT  
and Metro Ethernet Switch for High Speed Broadband Access Service

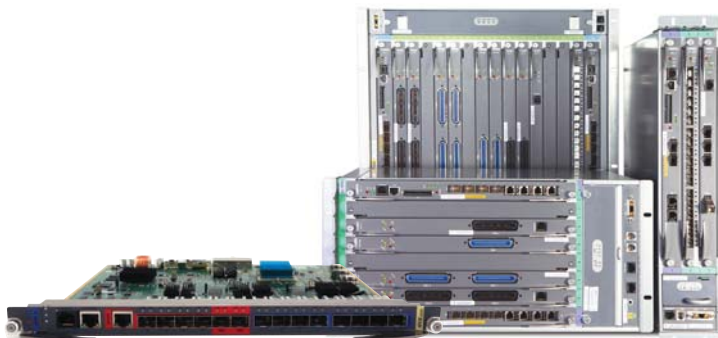
**FORTH GPON - 4 / GPON - 8** is the GPON OLT and Metro Gigabit Ethernet Service which integrates the functionality of aggregation switch, Optical Gigabit Ethernet and GPON for broadband access. It can provide high density GPON up to 1,024 subscribers and Active Gigabit Ethernet optical for Point to Point access service, Triple-play service, Ethernet lease line service for business customers. High speed 128G bit/s switch capacity. Have 2x10G bit/s and 5x1G bit/s interfaces for provided services and cascading remote access equipment.

The GPON - 4 / GPON - 8 form factor is compatible with service card on FORTH's Smart Node Shelf SN6200, SN6500, SN6900. This card is Smart Node 7100 that can be plug and play on existing node.

FORTH's EMS management system provides easily the capabilities necessary for operation, administration, maintenance and provisioning

### Feature

- ▶ 128G bit/s switch capacity
- ▶ 2 10GbE, 5 1GbE uplink ports
- ▶ Multi-service for FTTx deployments
- ▶ Non-blocking high performance switching
- ▶ Full electrical and optical redundancy
- ▶ Carrier class operation for Telco or Operator used
- ▶ Real-time network traffic monitoring and analysis
- ▶ EMS management with GUI on both Ethernet/GPON



# TECHNICAL SPECIFICATION

## FORTH | Optical Service Access Node | GPON - 4 / GPON - 8

### Physical information

- Installation RU System
- Dimensions 33.5cm x 31cm x 25cm (W x D x H)

### Interface and Peripheral

- 10G Base-X 2 x SFP+
- 1G Base-X 4 x SFP
- 1G Base-TX 1 Port
- GPON OLT
  - GPON - 4** 4 x GPON SFP
  - GPON - 8** 8 x GPON SFP
- Network Management 1 x RJ-45
- Serial Interface / Console Port 1 x RJ-45 (RS232)

### GPON

- ITU-T G.984, ITU-T G.988 compliant
- Optical splitting ratio (max) 1:128 Total 512 Subscribers (GPON-4), 1,024 Subscribers (GPON-8)
- Dynamic Bandwidth Allocation (DBA)
- Configurable traffic rate limited
- 4K GEM ports and 1KT-CONTs

### Layer 2 Switch Feature

- 32K MAC address
- 4K VLAN
- 128Gpbs Switching Fabric Capacity
- Up-Link capacity 25Gbps(MAX)
- IEEE 802.1d STP, IEEE 802.1w RSTP
- IEEE 802.1q VLAN, IEEE 802.3x Flow Control
- IEEE 802.3ad Link Aggregation
- Broadcast and Multicast storm control
- MAC limiting
- IGMP v1 v2 (Snoop & Proxy supported)
- Ring, Star, Cascade stacking link topologies supported

### Quality of Service

- Access Control List supported
- CoS 8 QoS classes per port
- DSCP and IEEE Std 802.1p supported
- SP, WRR, WRED, DRR, PFQ and RED function supported

### Security

- Port-based access control support (IEEE Std 802.1X)
- Physical Port Control
- User to User Port Control / Port Isolation

### System Protection

- Link Aggregation Groups
- STP/RSTP/MSTP

### Management

- Local and Remote Management
- Command Line Interface with Serial/Telnet/SSH
- EMS GUI-Base Management with SNMP v1,2
- Configuration Backup / Restore
- Remote and Local FTP/TFTP Firmware upgrade
- ONT remote configurable and monitoring

### Power Characteristic

- Power consumption 90 Watt (MAX)
- Input Power -48 VDC  $\pm$  10%

### Environment

- Operating Temperature -10 °C to +55 °C
- Humidity 5% to 95%

## Ordering Information

### Models

**GPON - 4** 1 RU, 2 10G SFP+\*, 4 1G SFP\*, 1G FE/GE, 4 GPON SFP

**GPON - 8** 1 RU, 2 10G SFP+\*, 4 1G SFP\*, 1G FE/GE, 8 GPON SFP

\*SFP and SFP+ not include

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