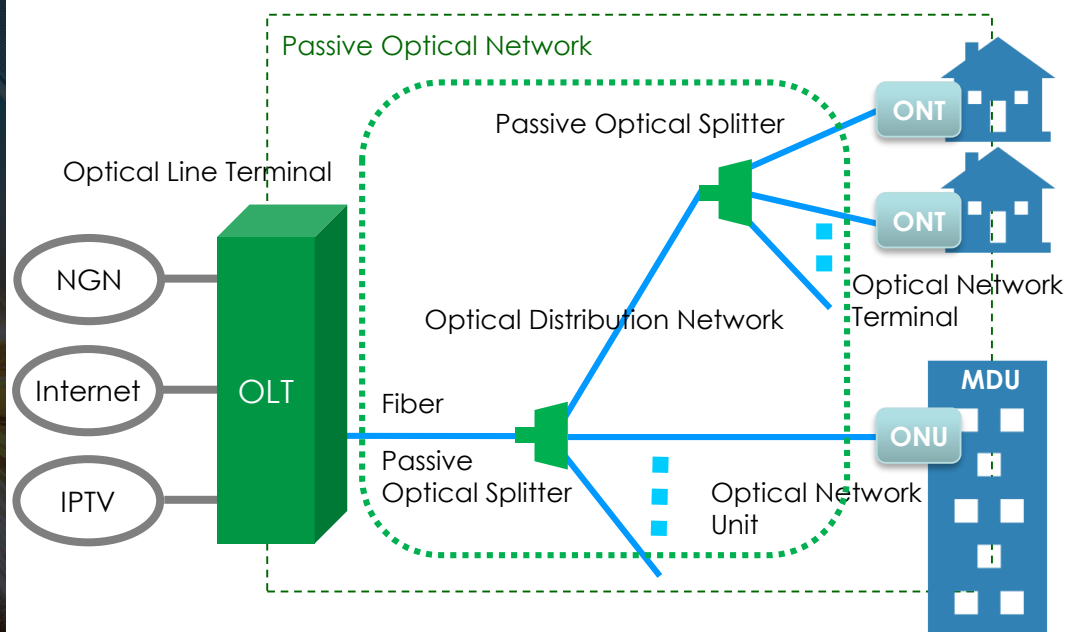




Features

- HIGH PERFORMANCE IN A COMPACT 1 RU DEVICE
- 104GBPS SWITCHING CAPACITY
- 8 GPON PORTS
- SPLITTING FACTOR UP TO 1:128 PER GPON PORT
- 1GE AND 10GE UPLINKS
- DEPLOYMENT FLEXIBILITY

GPON OLT



Description

The UTStarcom OLT4300-08 is a compact yet powerful OLT system offering 104Gbps capacity in a 1RU form-factor. The OLT4300-08 provides 8 access GPON ports, 2 x GE SFP uplink ports, and 2 x 1/10GE SFP/SFP+ uplink ports for high-capacity and intensive traffic applications.

The operators can benefit from deployment flexibility and CAPEX savings thanks to the splitting ratio of up to 1:128, support of different

types of ONTs, various uplink options including 1GE and 10GE interfaces, AC and DC power supply options, all in a compact 1RU space-saving enclosure.

With multiple protection mechanisms including loop and link detection, prevention of loops, hot-swappable expansion slot for GPON SFP module, the OLT4300-08 OLT system provides reliability and resiliency that can meet network operator's requirements.

High performance and deployment flexibility coupled with GPON, L2, L3, QoS, security and other features creates an optical access solution ideally suited for a number of applications including high-density MDU deployments, community broadband access, smart grid and other applications.

See more carrier-class solutions online at www.utstar.com



Product Details

DIMENSIONS AND WEIGHT

Dimensions	440 x 380 x 44mm 1RU
Weight	≤3kg

POWER

Input Voltage	AC: Input 100 to 240V, 47 to 63Hz DC: Input -36V to -75V
Power consumption	≤85W

ENVIRONMENTAL

Operation temperature	0°C to 50°C
Storage temperature	-40°C to 70°C
Operation humidity	10% to 90% (non-condensing)

Technical Specifications

PERFORMANCE

Switching capacity	104Gbps
Throughput (IPv4/IPv6)	75.88Mpps

ACCESS CAPACITY

Port	Interface	Max. ports
PON	PON	8
Uplink	GE SFP	2
	GE SFP/10GE SFP+	2

STANDARDS

ITU-T G.984/G.988
IEEE 802.1D, Spanning Tree
IEEE 802.1Q, VLAN
IEEE 802.1w, RSTP
IEEE 802.3ad (LACP)
Ethernet – II

PON FEATURES

Downlink 2.5Gbps/ Uplink 1.25Gbps
Support Class B+, Class C+ GPON Module
ONU Authorization Mechanism
Switch on/off transceiver of ONT remotely

L2 FEATURES

MAC

MAC Black Hole
Port MACLimit

VLAN

QinQ, Selective QinQ
Port VLAN, 4K VLAN

Spanning tree protocol

IEEE 802.1D Spanning Tree Protocol (STP)
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

Port

Bi-directional bandwidth control
Static link aggregation and LACP (Link Aggregation Control Protocol)
Port mirroring and traffic mirroring

L3 FEATURES

Static Routing, RIP/ RIPng, OSPF/OSPFv3

MULTICAST FEATURES

MLD Snooping
L2 Multicast
IGMP Snooping

RELIABILITY

Loopback-detection
Support long luminescence, and other abnormal light emitting ONU detection capabilities
Unidirectional link detection protocol to prevent spanning tree loops
Expansion Slot support GPON SFP module hot swappable

SERVICE QUALITY

Back pressure Flow control (Half Duplex)
IEEE 802.3x Flow Control (Full Duplex)
IEEE 802.1p, CoS
WRR, SP and FIFO Queue Scheduling Algorithm
Uplink and Downlink rate limit based on each ONU
DBA and SLA
Standard and extended ACL
Time Range ACL
Support packet filtration of L2~L7 even deep to 80 bytes of IP packet head

MAINTENANCE

Network maintenance:

Telnet-based statistics
RFC3176 sFlow
LLDP
802.3ah Ethernet OAM
RFC 3164 BSD syslog Protocol
Ping and Traceroute

Device maintenance:

Command-line interface (CLI), Console, Telnet and WEB configuration
System configuration with SNMPv1/v2/v3
RMON (Remote Monitoring) 1/2/3/9 groups of MIB
NTP (Network Time Protocol)

NETWORK SECURITY

PON port data encryption
Limit the maximum number of users per port
Port Isolation
Packet storm control
Stream-based ACL access control

CONFIGURATION MANAGEMENT

Debug output port
Various management methods: CLI, SNMP, TELNET and so on
Software upgrades can be performed via TFTP/FTP

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