

GATE-X EPON OLT

GX-4000 Series

GATE-X GX-4000 Series is the FTTx series of product compliant to IEEE 802.3ah. GX-4000 series, the optical line terminal is the head end of EPON access network. With high port density in 1U formfactor, advanced switching features and carrier grade Service level agreements, GX-4000 series offers an optimal solution for telecom carriers to provide triple play services to residential and enterprise customers. GX-4000 series supports up to 4 EPON links, with each link capable of offering upto 1Gbps symmetrical bandwidth to 64 subscribers.

Features and benefits

L2/L3 Switching

- Advanced L2/L3 Switching
- IPv6 routing and tunneling
- Hardware based IP multicast routing/forwarding
- IEEE 802.3x flow control
- IEEE 802.1q VLAN Q-in-Q stacking VLAN and PVLAN
- IGMP snooping v1/2c and IGMP proxy
- Broadcast storm control
- Unicast and multicast rate limiting
- 802.1p, TOS, DSCP, VLAN-based, L4 port QoS scheduling
- Egress rate shaping

EPON

- IEEE 802.3ah compliance
- Hardware based configurable Dynamic bandwidth allocation (DBA) IEEE802.3ah OAM
- 256 LLIDs for each PON link
- Per LLID based Service level agreement (SLA)
- IP multicast shaping
- Local and remote diagnostics
- L2/L3/L4 filtering and classification
- AES128 encryption

Security

- Hardware based network security without impacting network performance
- High performance IPSec engine that supports DES, 3DES, HMAC-SHA-1
- DoS Attack Prevention Engine
- Per Port blocking
- IEEE 802.1x support
- MAC address blocking

System Management

- Comprehensive EMS
- SNMP protocol, v2c
- IEEE 802.3ah OAM
- Support for In band management through 10G ethernet port
- Serial console
- Error log in EPROM based memory
- Upload and download configuration settings
- Remote firmware upgrade

Key Features

Dynamic Bandwidth Allocation (DBA) and quality of service allow the subscribers to share the 1Gbps and get mre bandwidth than their agreements.

Remote management of OLT (provisioning, diagnostics, firmware upgradation)
Advanced L2/L3 switching and routing features

Comprehensive EMS that offers complete FCAPS functionality to efficiently fit into existing telecommunication management network

Technical Specifications

Interfaces

Four EPON OLT optical interfaces each supporting 1.2Gbps/2.5Gbps symmetrical
One 10GbpE uplink port
A 10/1000 Ethernet control port for out of band management (EMS)
Serial console for CPU, protocol processors

Optics

Optical fiber type: Single mode
Wavelength: 1490nm for transmit and 1310nm for receive
Output power: +2dBm to +7dBm
Split ratio of 1:64

Power

Dual -48V Power feed or 230V AC Power feed
Power consumption of 55W(max)

Operating temperature

0 to 70 deg C

Weight

5kg

Dimension

17" wide, 14" deep, 1.7" height

Installation

19" Rack mountable

Ordering Information

Model	Network Interface				Casing Type
	PON port	Uplink 10G XFP	Uplink 1G SFP	Uplink 1G RJ45	
GX- 4004P	4	0	0	4	Pizza
GX-4100P	4	1	0	0	Pizza
GX-4110P	4	1	1	0	Pizza

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