



NetCircle® GX3100-08H / GX3100-16H Pizza Box GPON OLT

Highlight

- ITU-T G.984/G.988 COMPLIANT 2.5Gbps DOWNSTREAM AND 1.25Gbps UPSTREAM GPON INTERFACE
- 1:128 SPLITS, 1024/2048 SUBSCRIBERS IN 1U BOX
- INDUSTRIAL DESIGN WITH NATURAL COOLING (NO FAN)
- ADVANCED L2/L3 FUNCTIONS
- ABUNDANT QOS FUNCTIONS
- UNIFIED NMS PLATFORM
- REMOTE PROVISION AND MANAGEMENT



Overview

- GENEW's GX3100-08H/GX3100-16H is the industrial level pizza box GPON OLT which fully compliance with ITU-T G.984/G.988 standards. It designed with natural cooling system. Coordinate with GENEW's ONT, it completes the end-to-end optical last mile with up to 2.5Gbps bandwidth for triple play services to residential and business customers.

Key Benefits

Cost-effective Triple Play Transport

GX3100-08H/GX3100-16H supports up to 8/16 PON links, each delivering 2.5 Gbps(upstream)/1.25Gbps(downstream) of shared bandwidth between up to 64 subscribers, serving a maximum of 512/1024 subscribers from a compact 1U chassis. It also supports 2 10GE SFP+ and 2 GE SFP interface for uplink. High subscriber density and low cost of entry, combined with the operational cost savings of GPON technology make GENEW GPON a compelling alternative to legacy, last-mile access solutions.

Enriched Bandwidth Allocate Policy

GX3100-08H/GX3100-16H supports 1024 ALLOC-IDs and 4096 GEM-Ports. It supports 5 T-CONT types compliance with ITU-T G.984.3 as well. The enriched QoS features such as traffic policy/traffic shaping/rate limit/Schedule allow operators to provision flexible bandwidth allocate policy for multiple customized service.

Flexible Provisioning, Quick to Revenue

GX3100-08/GX3100-16 support SNMP/CLI for remote management. Powerful OMCI functions enable remote diagnostics, flexible provisioning, and reconfiguration of the GENEW NMS platform.



GENEW TECHNOLOGIES CO.,LTD.
5-6/F Rich-info Innovation Center,
3176 South KeYuan Road, South Hi-tech park,
Nanshan District,
Shenzhen, CHINA



Tel: +86(755)3698-8868
Fax: +86(755)2661-9963

www.genew.com



A global telecom infrastructure provider of innovative carrier-class Core, Broadband Access and Critical Communications.

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Features

PON

- Split Ratio: 1:128
- 4096 GEM Ports
- 1024 T-CONT
- Support B+/C+ PON transceiver
- SN / SN+Password ONU authentication
- FEC
- ONU Digital Diagnostic Monitor
- Rogue ONU Detection

L2

- Wire-rate switch/forwarding
- 32K MAC address table
- Port-based VLAN, Protocol-based VLAN, 802.1q VLAN
- ONU-based QinQ, 1:1/N:1 VLAN translate
- LACP/LAG
- RSTP
- Port Mirror
- Flow control / Back pressure
- Broadcast/DLF/Unknown Multicast storm control

L3

- Switch Virtual Interface (SVI)
- Static Route
- Static/Dynamic ARP
- ICMP/Traceroute
- DHCP Server / DHCP Relay

Multicast

- IGMPv1/v2 snooping
- MLDv1 snooping
- IGMP snooping with Proxy
- Fast Leave
- 2K IGMP table

QoS (Quality of Service)

- IEEE 802.1p, 8 CoS queue
- SP/WRR/SP+WRR
- IPv4 TOS/IP Precedence
- Classification/Shaping/Policy/Rate limit/Schedule
- DBA
- ONU-based bandwidth control in downstream

Security

- SSH
- ACL
- User isolation
- Encryption in PON downstream
- IEEE 802.1x/Radius
- DHCP Option82 / PPPoE+

OAM

- FTP/TFTP, SNMP v1 & v2c, Telnet, Console (CLI)
- In-band/Out-band Management
- Auto provision for ONU configuration
- PM

Specification

Physical

Size:	482mm (W) x 210mm (D) x 44mm (H)
Weight:	3.3kg
Power:	DC: -48V / AC: 220V Dual DC/Dual AC power redundancy
Instructure:	1U chassis with CSM&Uplink&PON Natural Cooling (No FAN)
Console:	1 RJ45 (RS232) interface
Out-band interface:	1 RJ45 10/100Base-T interface
Uplink Interface:	2 SFP GE / 2 SFP+10GE interface
PON interface:	8/16 GPON interface
PON fiber type:	SM, BIDI.
PON interface type:	SC/UPC

Parameters

Switch Capacity:	136Gbps
Throughput:	65.5 / 95.2Mpps
Flash Size:	64M Bytes
Memory Size:	1G Bytes
Consumption:	36W / 50W
Bandwidth:	1.25 Gbps (Upstream) 2.5Gbps (Downstream)
PON Tx Power:	3~7dBm (C+)
PON Rx Sensitivity:	-30 dBm (C+)
PON Rx Overload:	-6 dBm (C+)
Wavelength:	1490 nm (Upstream) 1310 nm (Downstream)

Compliant

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

Environment

Operating Temperature: -15°C~60°C
Storage Temperature: -40°C~70°C
Relative Humidity: 10%~90%, no condensing