



# GX3500-S17 Chassis XG(S)PON/GPON OLT

## Highlight

- ITU-T G.984/G.987/G.988/G.9807 COMPLIANT 10Gbps/2.5Gbps DOWNSTREAM AND 10Gbps/2.5Gbps/1.25Gbps UPSTREAM PON INTERFACE
- HYBRID PLATFORM FOR GPON/XG(S)PON TECHNOLOGY
- POWER/CSM REDUNDANCE, PON PROTECTION
- 272\*GPON/208\*XG(S)PON/240\*XG(S)PON & GPON Combo PON PORTS IN 11U CHASSIS
- HOT SWAP MODULAR DESIGN
- ADVANCED L2/L3 FUNCTIONS
- ABUNDANT QOS FUNCTIONS
- UNIFIED NMS PLATFORM
- REMOTE PROVISION AND MANAGEMENT



## Overview

- GENEW's GX3500-S17 is the chassis GPON platform which support GPON/XG(S)PON and fully compliance with ITU-T G.984/G.987/G.988/G.9807 standards. Coordinate with GENEW's ONT, it completes the end-to-end optical last mile with up to 10Gbps bandwidth for triple play services to residential and business customers.

## Key Benefit

### Cost-effective Triple Play Transport

GX3500-S17 supports up to 272\*GPON/208\*XG(S)PON/240\*XG(S)PON&GPON Combo PON in 17 service slots from a compact 11U chassis. It provide 4\*25GE/10GE+4\*25GE/10GE uplink interface on CSM(Control & Switch Module), also can support up to 104\*25GE/10GE/GE uplink or up to 26\*100GE uplink interface. 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

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

GX3500-S17 supports SNMP/CLI for remote management. Powerful OMCI functions enable remote diagnostics, flexible provisioning, and reconfiguration of the GENEW NMS platform.



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## Features

### PON

- Splitter Ratio: 1:128(GPON), 1:256(XG(S)PON)
- Support B+/C+(GPON), N1/N2(XG(S)PON) transceiver
- SN / Password / SN+Password ONU authentication
- FEC
- ONU Digital Diagnostic Monitor
- Rogue ONU Detection

### PTP

- Support IEEE 1588 V2, G.8265.1,G.8275.1,G.8275.2

### SyncE

- Support G.8261, G.8262, G.8264

### L2

- Line-speed switch/forwarding
- 710K MAC address table
- Port-based VLAN, Protocol-based VLAN, 802.1q VLAN
- ONU-based QinQ, 1:1/N:1 VLAN translate
- LACP/LAG
- STP/RSTP/MSTP
- Port Mirror
- Flow control / Back pressure
- Broadcast/DLF/Unknown Multicast storm control

### L3

- Switch Virtual Interface (SVI): IPv4/IPv6
- Static Route
- Static/Dynamic ARP
- ICMP/Traceroute
- DHCP Server / DHCP Relay: IPv4/IPv6

### Multicast

- IGMPv1/v2 snooping
- MLDv1 snooping
- IGMP snooping with Proxy
- Fast Leave

### 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
- DHCP Option82 / PPPoE+

### OAM

- FTP/TFTP, Ethernet OAM
- SNMP v1 & v2c, Telnet (IPv4/IPv6), Console (CLI)
- In-band/Out-band Management
- Auto provision for ONU configuration
- PM

## Specification

### Physical

Size:	530mm (W) x 286mm (D) x 486mm (H)
Weight:	46kg
Power:	DC: -48V (Pluggable), Dual DC power redundancy
Power consumption:	1600W (Typical)
Instructure :	11U, Hot Swappable, Modular
Uplink:	4*25GE/10GE +4*25GE/10GE interface on CSM 104*25GE SFP28/10GE SFP+, 26*100GE QSFP28
PON:	272*16 GPON/208*XG(S)PON/ 240*GPON&XG(S) Combo PON
PON fiber :	SM, BIDI
PON Interface type:	SC/UPC

### Parameters

Switch Capacity:	4.8Tbps
Flash Size:	64M+8G Bytes (CSM), 64M Bytes (PON)
Memory Size:	4G Bytes (CSM), 4G Bytes (PON)
Split Ratio:	1:64 (GPON), 1:128 (XG(S)PON)
Bandwidth:	GPON: 1.25Gbps (Up), 2.5Gbps (Down) XGPON: 2.5Gbps (Up), 10Gbps (Down) XGSPON: 10Gbps (Up), 10Gbps (Down)
PON Tx Power:	3~7dBm (C+), 4~8dBm (N2a)
PON Rx Sensitivity:	-30 dBm (C+), -29.5dBm (N2a)
PON Rx Overload:	-12 dBm (C+), -9dBm (N2a)
Wavelength:	GPON: 1310 nm (Up), 1490 nm (Down) XG(S)PON: 1270nm (Up), 1577nm (Down)

### Compliant

ITU-T G.984/G.987/G.988/G.9807  
IEEE 802.1D, Spanning Tree  
IEEE 802.1Q, VLAN  
IEEE 802.1w, RSTP  
IEEE 802.3ad, LACP  
Ethernet – II

### Environment

Operating Temperature : 0°C~40°C  
Storage Temperature : -40°C~70°C  
Relative Humidity : 10%~90%, no condensing

Part	Description
RACK	GX3600-S17 Chassis (11U Front-access) with Backplane and Fan tray
CSM3S	Control & Switching Module (4.8Tbps) , 4*25GE/10GE uplink
GPN4C	GPON card , 16 ports
XGS1C	XGPON or XGSPON card , 16 ports
XSM2A	XG(S)PON&GPON Combo card , 8 ports
XSM2C	XG(S)PON&GPON Combo card , 16 ports
XUC1A	25GE/10GE/GE card , 8 ports
HUC1D	100GE card , 2 ports
PDC1A	DC power card, input: -40V~-60V