

GP-5606

Carrier Level Chassis GPON OLT

Product Overview

CXR GP5606 complies with ITU-T G.984/G.988 and meets requirements about GPON OLT in Network Access Technical Requirements. It fully supports CTC2.0, automatic discovery and cooperation with ONUs of different manufacturers.

CXR GP5606 supports the symmetric uplink 1.25Gbps/downlink 2.5Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:128, and its support of different hybrid ONU networks minimize the carrier's investment.

CXR GP-5606 based on the edge-cutting technologies, is strong in functions. A few of its functions such as QoS guarantee, SLA and DBA can be easily listed out.



Product Characteristics

GPON: Abiding by ITU-T G.984/G.988, CXR GP5606 Series meets relevant requirements of GPON OLT regulated in Network Access Technical Requirements ;

Well Interaction: automatic discovery and compatible with ONT;

Hardware Redundancy: dual main control, dual power redundancy; Hot Swap: **GP5606** Series adopts the modularized designed. Each service card hot swap;

System Capacity: GP5606 Series

supports 128 PON ports and at most 16K ONT;

Environmental Protection: low power consumption and low operating cost.

Bus Optical Fiber Protection: the link can be automatically switched when trouble occurs in the optical fiber;

Power Characteristics: supports dual-AC, dual-DC and AC/DC power supply. The power supply supports modularized design, hot-swap and EMC-3 standard. It well adapts to the environment.



Support 1.25Gbps uplink and 2.5Gbps downlink bandwidth



Efficient bandwidth usage and Ethernet services



The Splitting ratio ups to 1:128

System Performance

Item	GP5606-06
Slot	
MCU	2
Business	4
Max. GPON ports	64
Power	2
Supported GPON SFP module	Class B+, Class C+, Class C++
Management interface	
RJ45 console	1 for MCU
Mini-USB console	1 for business module
Out-of-Band	1 for MCU
System capacity	
DRAM (MB)	1024
Flash (MB)	64
Backplane	4Tbps
MAC table	128K
Buffer size (MB)	9
Jumbo frame (KB)	2
IPv4 routing table	8K
IPv6 routing table	8K
Active VLAN	4,094
SVI number	400
Forwarding mode	Store-and-forward

Technical Specifications

Standards

- ITU-T G.984/G.988
- IEEE 802.11D, Spanning Tree
- IEEE 802.1Q, VLAN
- IEEE 802.1w, RSTP
- IEEE 802.3ad physical link static/dynamic aggregation (LACP), Ethernet - II

VLAN

- Port/IP/Protocol/MAC-based VLAN
- 4K VLAN
- QinQ and flexible QinQ

Multicast

- L2 multicast
- IGMP snooping
- MLD snooping
- Fast-leave

Layer 3 Function

- Static route
- RIPV1/v2
- OSPF
- BGP

QoS

- Backpressure flow control (half duplex)
- IEEE 802.3x flow control (full duplex)
- IEEE 802.1p, CoS
- WRR, SP and FIFO queue schedule
- Limiting the uplink/downlink rate based on each ONU
- DBA and SLA

Reliability

- Unidirectional Link Detection (UDLD)
- Hot swap of the PON optical module
- Optical path protection of GPON (type B/C)
- Abnormal luminescence ONU detection such as long luminescence
- IEEE 802.3ad LACP

DHCP Function

- Server/Relay/Client
- DHCP snooping
- DHCP option 66,67,82
- DAI
- IP source guard

Network Security

- L2~4 ACL
- Flow-based ACL
- MAC limitation
- MAC sticky
- Port isolation
- Packet storm control
- Transmission data encryption on the PON interface
- Anti attack for DDOS, TCP-SYN-flood, UDP-flood, ARP-flood, etc.

Management

- Various management modes such as CLI, Telnet, SSH, HTTP, SSL and SNMP
- ISSU
- FTP/TFTP
- Debug output
- NTP
- SPAN

Network Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS



Physical Characteristics

Item		GP5606-06
Power supply		
AC (V)		90 ~ 264
DC (V)		36~72
Power slots		2
Hot-swap		Support
Max. consumption (W)		533
Total output BTU (note: 1000 BTU/hr = 293W)		1819.11
Cooling system		
Fan number		6
Air-flow		Left-right
Noise@25°C(dBA)		< 65
Appearance		
Chassis	Dimensions(WxDxH mm)	482.6 x 548 x 399.7
	Weight (Kg)(empty)	47.4
Package	Dimensions(WxDxH mm)	676 x 661 x 645
	Weight (Kg)	62
Environmental specifications		
Operating	Temperature	0~45°C
	Humidity (non-condensing)	10%~85%
Storage	Temperature	-40°C~80°C
	Humidity (non-condensing)	5%-95%
Accessories		
Parts		Power cord, rackmount kits, console cable
Reliability		
MTBF (Hr)		90,000
Certification		CE, FCC, ROHS

Ordering Information

Model	Description
GP5606-06	GP5606-06 OLT chassis (standard fan board, 2 power supplies at most, 6 expansion slots, 2 slots are for main control board, 4 service slots)
GP5606-MSU	GP5606 Series OLT Main Control Board
GP5606-16GPON	OLT GPON interface board with 16 ports (16 GPON SFP ports and 4 10GE SFP+ ports, no optical module)
GP5606-12SFPP	OLT GPON 10GE interface board with 12 ports (12 10GE SFP+ ports, no optical module)
GP5606-1200AC	GP5606 OLT AC power supply (AC900~240V input voltage , 1200W max power)
GP5606-1200DC	GP5606 OLT DC power supply (DC 36~72V input voltage, 1200W max power)
SFP-GP-OLT-SM20H	OLT SFP module, Class C+ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface
SFP-GP-OLT-SM20HPP	OLT SFP module, Class C++ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface



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