



V5848G

G-PON OLT with Multi-service Chassis



V5848G can be used as a L3 chassis type switch supporting 48-Port 100/1000Base-X SFP GE service as well as G-PON Optical Line Terminal (OLT) supporting 16-Port G-PON interfaces. To deliver a range of full-featured and high-performance FTTx service, V5848G also provides simultaneous services of G-PON and Gigabit Ethernet. It terminates the traffic coming from the subscriber lines and consolidates it on one or more Gigabit Ethernet interfaces towards the metropolitan area.

V5848G is a chassis system which is designed for maximum flexibility and scalability, so that users can configure a service interface with all of G-PON, Gigabit Ethernet or mixture of G-PON and GE according to their network circumstances. It enables network managers to build adaptable networks with maximum cost efficiency and easy management.

Product Features

- Multi-service chassis providing FTTx and Ethernet service
- 180 Gbps switching capacity
160 Mpps forwarding rate
- Reliable FTTx service with switching fabric and power redundancy system
- Non-stop Forwarding, Non-stop Routing
- Extremely high reliability via its redundancy design concept (SFU/G-PON/NIU/Power)
- Improved QoS and differentiated traffic service
- Backbone network provisioning with high availability features
- Remote network management
- User-friendly CLI via console or telnet
- Real-time network traffic monitoring and analyzing

• Specification

Flash Memory	72MB	MAC Address	32K (Max. 512K)
SDRAM	512MB	Routing Entry	16K (Max. 1M)
SIU (Subscriber Interface Unit)	Maximum 4 Units can be mounted <ul style="list-style-type: none"> ▶ SIU_GE12: 12-Port, 100/1000Base-X (SFP) ▶ SIU_GPON4: 4-Port, GPON (SFP, SC/PC) ▶ SIU_GPON4R: 4-Port, GPON Redundancy 	VLAN	4K
NIU (Network Interface Unit)	Maximum 2 Units can be mounted <ul style="list-style-type: none"> ▶ NIU_GE12: 12-Port, 100/1000Base-X (SFP) ▶ NIU_10GE2: 2-Port, 10GbE (XFP) ▶ NIU_GE8+: 8-Port (100/1000Base-X,SFP), 1-Port, 10GbE (XFP) 	Switching Capacity	180Gbps
SFU (Switching Fabric Unit)	1-Port of the Console port (UART RJ-45) & 1-Port of the MGMT port (10/100BASE-TX, RJ-45)	Throughput	160Mpps
CIU (Control Interface Unit)	External alarm input and output	Input Voltage (AC)	100-240VAC, 50/60Hz
		Input Voltage (DC)	-48VDC
		Power Consumption	276W
		Operating Temp.	32~122°F (0~50°C)
		Storage Temp.	-40~158°F (-40~70°C)
		Operating Humidity	0~90%, Non-Condensing
		Dimension (W x H x D)	440 x 310.3 x 266 mm

• Functionality

L2	32K MAC address entries (Full wire speed switching) 4M-bytes for packet buffer size VLAN 4K and Double 802.1Q (Q in Q) for stacking 4K spanning tree (IEEE 802.1w, IEEE802.1s) VLAN Stacking/Translation	G-PON	4K port-ID and 1K alloc-ID Support ITU-T G.984.4 ONT OMCI Remote ONT/ONU management Multiple T-CONTs per ONU (ONT) Support both NSR and SR DBA (G.984.3) GPON OLT compliant with ITU-T G.984
L3	16K/8K routing entries for IPv4/IPv6 Static Routing RIPv1/v2, OSPFv2, BGPv4 Virtual router redundancy protocol (VRRP)	MPLS LER	RSVP-TE and Path Protection and Local Repair (Head-end role) EXP-based QoS
QoS	Traffic Scheduling (SP, WRR, DRR) 8 queues per port Port rate limit with the egress shaping Multiple T-CONTs	Multicast	IGMPv1/v2/v3 4K L2/L3 multicast entries IGMP proxy/ IGMP snooping/ IGMP Static join

• Sample Configuration

