DASAN *Networks*

G-PON OLT System

RoHS

e+

With increasing internet users in thinly populated regions, the demand of high-bandwidth and cost-effective systems for connecting to network has been existed in the market these days. To meet these customer needs, DASAN Networks has launched V5812G G-PON (Gigabit Passive Optical Network) OLT system.

V5812G is a compact G-PON OLT system having 4 G-PON ports and 8 uplink ports (optical or electrical GE), which provides FTTx service to the areas that have a low density of population or a small number of subscribers with less cost.

V5812G meets carrier's requirements for flexibility and reliability. V5812G supports the module-type power (AC/DC) and combo-type Gigabit uplink ports (optical or electrical GE), which ensures to apply in a variety of circumstances. Reliable operation and service are guaranteed through power redundancy, which prevents the system shutting down at the power-related failure.

High Performance

• 36 Gbps switching capacity

• 26.8 Mpps forwarding rate

• High Capacity Uplink/Service Interface 2.5Gbps (down) / 1.25Gbps (up)

Efficiency

• Easy to install due to Compact Size

• Cost-Effective at thinly populated regions

Flexibility and Reliability

• Selective interfaces for network circumstances
  - Module-type power / Combo-type ports

• Reliable FTTx service with power redundancy system

• Improved QoS and differentiated traffic service

G-PON OLT System

V5812G

G-PON OLT System

• Specification

Performance	Switching Capacity: 36 Gbps, Throughput: 26.8 Mpps	Input Voltage (AC)	100~240VAC, 50/60Hz
Flash Memory	40MB	Input Voltage (DC)	-48VDC
SDRAM	512MB	Output Voltage	DC 12V, 6.25A (75W)
Service port	4-Port G-PON - 2.5Gbps(down)/1.25Gbps(up), SFP Type	Power Consumption	45W

Uplink port	8-Port Combo-type
	  100/1000BASE-X (SFP Type) or
	  10/100/1000BASE-T (RJ-45)
		Operating Temp.	0~50℃

		Storage Temp.	-40~70℃
		Operating Humidity	0~90%(Non-Condensing)
Console port	1-Port Console, RJ-45 (RS232)	Dimension (W × D × H)	432mm×300mm×43mm
MGMT port	1-Port 10/100BASE-TX, RJ-45		

• Functionality

L2 Features	Standard Ethernet Bridging 16K MAC entries 4K VLANs Port-based VLAN Spanning tree (STP/RSTP/MSTP) 802.3ad Link aggregation based on MAC Flow Control	G-PON	Support 4k port-ID and 1k alloc-ID Support ITU-T G.984.4 ONT Management & Control Interface (OMCI) Remote ONT/ONU management Automatic ONT ranging GPON OLT compliant with ITU-T G.984
L3 Features	Static Routing RIPv1/v2, OSPFv2, BGPv4 VRRP	Security	SSH v1/v2 802.1x with RADIUS and TACACS+ Storm Control
Multicast	IGMPv1/v2/v3 IGMP Snooping MVR IGMP Filtering and Throttling	Management	Serial/Telnet (CLI) SNMPv1/v2/v3 DHCP server, relay agent with option82 RMON Syslog Port Mirroring
QoS	Rate Limit per port Scheduling (SP, WRR, DRR) Queues per Port (4)		

[Sample Configuration]

Legend: Giga / PON / TX / Copper

Core Network — Central Office

V5812G G-PON OLT

Real FTTH — Splitter — 1:64 / 1:128 — H645V G-PON ONT — Phone

Hybrid FTTH-1 — Splitter — 1:20 — H645A G-PON ONT

V5924C-R G-PON VDSL MDU — H335G xDSL CPE — Phone

V2824 G-PON FE MDU

Hybrid FTTH-2 — V2524G G-PON GE MDU — V2824 L2 FE Switch

Purchase from: **MULTICOM** www.multicominc.com 800-423-2594

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