

# V5812G G-PON OLT System









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
- 53.5 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



## V5812G

G-PON OLT System

### Specification

Performance Switching Capacity: 36Gbps, Throughput: 53.5 Mpps In 40MB In 512MB Service port 4-Port G-PON - 2.5Gbps(down)/1.25Gbps(up), SFP Type Uplink port 8-Port Combo-type 100/100/Base-X (SFP Type) or 10/100/1000Base-T (RJ45) Console port 1-Port Console, RS232

1-Port 10/100Base-TX, RJ45

Input Voltage (AC)
Input Voltage (DC)
Output Voltage
Power Consumption
Operating Temp.
Storage Temp.
Operating Humidity
Dimension
(W×D×H)

100-240VAC, 50/60Hz
-48/60VDC
DC 12V, 6.25A (75W)
AC type: 48W, DC type: 38W
-20~60 °C (32~122°F)
-40~70 °C (-40~158°F)
0~90%(Non-Condensing)
432mm×300mm×43mm

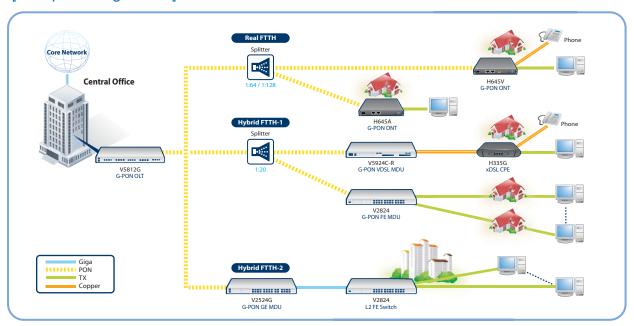
### Functionality

MGMT port

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

### [ Sample Configuration ]

Queues per Port (4)





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