



## 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

## • Specification

|              |   |                    |                            |
|--------------|---|--------------------|----------------------------|
| Performance  | Switching Capacity: 36Gbps, Throughput: 53.5 Mpps                             | Input Voltage (AC) | 100-240VAC, 50/60Hz        |
| Flash Memory | 40MB  | Input Voltage (DC) | -48/60VDC                  |
| 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  | AC type: 48W, DC type: 38W |
| Uplink port  | 8-Port Combo-type<br>100/1000Base-X (SFP Type) or<br>10/100/1000Base-T (RJ45) | Operating Temp.    | -20~60 °C (32~122°F)       |
| Console port | 1-Port Console, RS232   | Storage Temp.      | -40~70 °C (-40~158°F)      |
| MGMT port    | 1-Port 10/100Base-TX, RJ45  | Operating Humidity | 0~90%(Non-Condensing)      |
|              |   | Dimension (WxDxH)  | 432mmx300mmx43mm           |

## • Functionality

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

## [ Sample Configuration ]

