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# V5812G

G-PON OLT System



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
- 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

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# V5812G

G-PON OLT System

## • Specification

| | |
|---|---|
| Performance | Switching Capacity: 36 Gbps, Throughput: 26.8 Mpps |
| Flash Memory | 40MB |
| SDRAM | 512MB |
| Service port | 4-Port G-PON - 2.5Gbps(down)/1.25Gbps(up), SFP Type |
| Uplink port | 8-Port Combo-type<br>100/1000BASE-X (SFP Type) or<br>10/100/1000BASE-T (RJ-45) |
| Console port | 1-Port Console, RJ-45 (RS232) |
| MGMT port | 1-Port 10/100BASE-TX, RJ-45 |

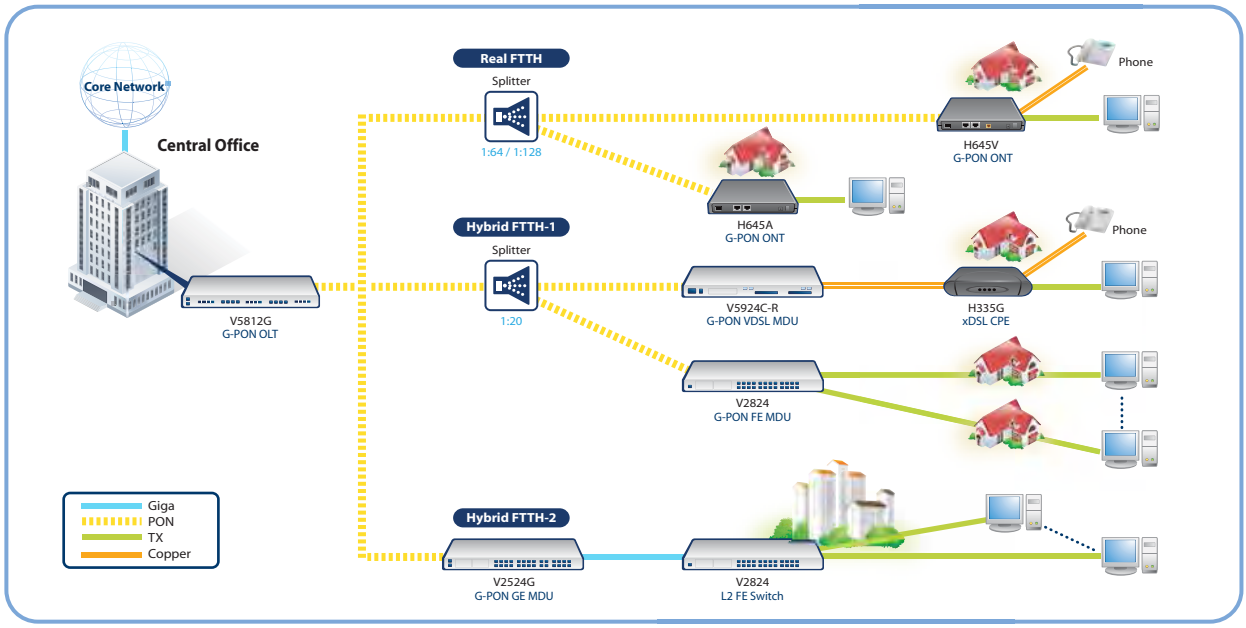
| | |
|---|---|
| Input Voltage (AC) | 100~240VAC, 50/60Hz |
| Input Voltage (DC) | -48VDC |
| Output Voltage | DC 12V, 6.25A (75W) |
| Power Consumption | 45W |
| Operating Temp. | 0~50℃ |
| Storage Temp. | -40~70℃ |
| Operating Humidity | 0~90%(Non-Condensing) |
| Dimension (W×D×H) | 432mm×300mm×43mm |

## • 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 |
| L3 Features | Static Routing<br>RIPv1/v2, OSPFv2, BGPv4<br>VRRP |
| Multicast | IGMPv1/v2/v3<br>IGMP Snooping<br>MVR<br>IGMP Filtering and Throttling |
| QoS | Rate Limit per port<br>Scheduling (SP, WRR, DRR)<br>Queues per Port (4) |

| | |
|---|---|
| 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>GPON OLT compliant with ITU-T G.984 |
| Security | SSH v1/v2<br>802.1x with RADIUS and TACACS+<br>Storm Control |
| Management | Serial/Telnet (CLI)<br>SNMPv1/v2/v3<br>DHCP server, relay agent with option82<br>RMON<br>Syslog<br>Port Mirroring |

## [ Sample Configuration ]




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