

GPON OLT



Dasan Networks is a global leader in delivering carrier-grade network and customer access solutions that enable high-speed data, voice, video, and wireless services over existing and emerging FTTP (Fiber-To-The-Premise) networks and legacy copper networks.

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 V5824G GPON (Gigabit Passive Optical Network) OLT system.

The V5824G is a compact GPON OLT system having 8 GPON ports and 2 optical 10GE (SFP+) uplink ports and 8 combo type GE 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. It supports the module-type power (AC/DC) and combo type Gigabit Ethernet ports (optical or electrical GE) and SFP+ type 10Gigabit uplink ports, which ensure 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.

Features

- 8 GPON ports
- 8 combo type GE ports (optical or electrical i/f)
- 2 1GE/10GBase-R uplink ports
- Compact sized 1RU GPON OLT
- Meets internet service provider's requirement for flexibility and reliability
- Flexible network integration
- Efficient GPON OLT for FTTx application
- Flexible VLAN tagging support
- QoS for traffic prioritization and bandwidth management
- IGMP support for IPTV applications
- Fully Managed via Dasan's INAS Element Manager
- SNMPv2/v3 with RMON and Alarming

Specifications

Flash Memory	64MB
SDRAM	512MB DDR2
Service Interface	8 GPON ports (SFP, SC/PC type)
Uplink Interface	8 GE combo type ports - 100/1000Base-X (SFP) or 10/100/1000Base-T (RJ45) 2 1G/10GBase-R (SFP+) ports
MGMT	1 10/100Base-TX (RJ45) port
Console	1 Console (RS232) port
MAC Address	32K (Full wire speed switching)
VLAN	4K

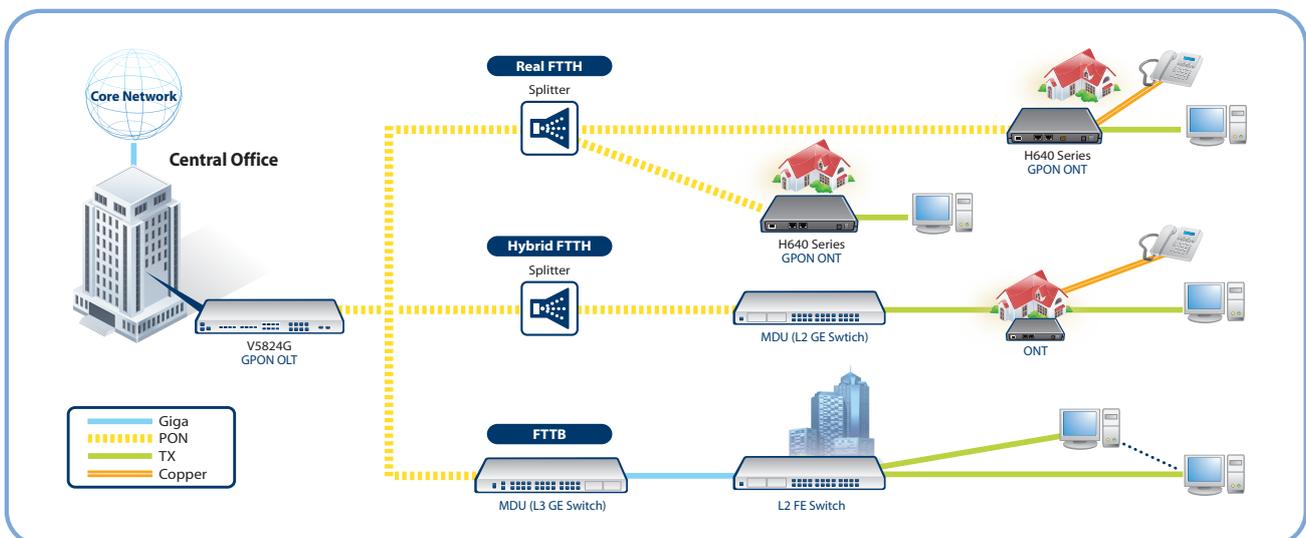
Switching Capacity	96Gbps
Throughput	71Mpps
Power Voltage	AC type: 100-240VAC, 50/60Hz DC type: -48/60VDC
Power Consumption	70W
Operating Temp.	-4 to 140°F (-20 to 60°C)
Storage Temp.	-40 to 176°F (-40 to 80°C)
Operating Humidity	0 to 90% (non-condensing)
Dimensions (W x H x D)	17.0 x 1.7 x 12.6 in (432 x 43 x 320 mm)

Capabilities

Layer 2	<ul style="list-style-type: none"> Standard Ethernet bridging Port/Subnet/Protocol-based VLAN Spanning Tree: STP, RSTP, MSTP 802.3ad Link aggregation based on MAC Flow Control
Layer 3	<ul style="list-style-type: none"> 8K IPv4 Subnets / 4K IPv6 Subnets Static routing RIPv1/v2, OSPFv2, BGPv4, VRRP 12K LPM table and ECMP/WCMP group
Multicast	<ul style="list-style-type: none"> IGMPv1/v2/v3 IGMP snooping IGMP filtering and throttling Multicast VLAN Registration (MVR)
QoS	<ul style="list-style-type: none"> Advanced QoS - metering, shaping and scheduling (SP, WRR, DRR) 8 queues per port

GPON	<ul style="list-style-type: none"> ITU-T G.984 compliant Supports ITU-T G.984.4 ONT Management & Control Interface (OMCI) Remote ONT/ONU management Automatic ONT ranging 4k port-ID and 1k alloc-ID
Security	<ul style="list-style-type: none"> Secure Shell (SSH) v1/v2 802.1x RADIUS, TACACS+ authentication Storm Control
EMS	<ul style="list-style-type: none"> INAS Web Management
Management	<ul style="list-style-type: none"> Serial / Telnet (CLI) SNMPv1/v2/v3 DHCP server, relay agent with option82 Remote Monitoring (RMON) Syslog, Port Mirroring

Sample Configuration



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