V5824G Broadband Access FTTx/G/E PON OLT

DASAN

Overview

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. V5824G is a compact GPON OLT system having 8 GPON ports and 2 uplink ports(10GE) & 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. V5824G meets carrier requirements for flexibility and reliability. V5824G supports the module-type power (AC/DC), 10Gigabit uplink ports(SFP+) 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.

Features

- 96Gbps switching Capacity
- 8 GPON ports, 10GE 2 ports and GE 8 ports
- High Capacity Uplink/Service Interface 2.5Gbps(down) / 1.25Gbps(up)
- Easy to install due to compact size
- Cost-Effective at thinly populated regions
- Selective interface for network circumstances
- Modular-type Power and Combo-type ports
- Reliable FTTx service with power redundancy system
- Improved QoS and differential traffic service
- IGMP support for IPTV applications
- Fully Managed via Dasan's INAS Element Manager
- SNMPv2/v3 with RMON and Alarming

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Specification

Flash Memory	64MB
SDRAM	512MB
Service Port	8 GPON(SFP, SC/PC type)
Uplink Port	8 GE Combo [100/1000Base-X (SFP) or 10/100/1000Base-T (RJ45)] 2 1G/10GBase-R (SFP+) ports
MGMT Port	1 10/100Base-TX (RJ45)
Consolt Port	1 Console (RS232)
MAC Table	32K
VLAN	4K
Switching Capacity	96Gbps
Throughput	71Mpps
Operating Temp.	-20~60°C
Operating Humidity	0~90% (non-condensing)
Power Voltage	AC type : 100-240VAC, 50/60Hz DC type : -48/60VDC
Dimensions (W x H x D)	432 x 43 x 320 mm

Capabilities

Layer 2	• Standard Ethernet bridging • Port/Subnet/Protocol-based VLAN • Spanning Tree: STP, RSTP, MSTP • 802.3ad Link aggregation based on MAC • Flow Control
Layer 3	• 8K IPv4 Subnets / 4K IPv6 Subnets • Static routing • RIPv1/v2, OSPFv2, BGPv4, VRRP • 12K LPM table and ECMP/WCMP group
Multicast	• IGMPv1/v2/v3 • IGMP snooping • IGMP filtering and throttling • Multicast VLAN Registration (MVR)
GPON	• 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	• Secure Shell (SSH) v1/v2 • 802.1x RADIUS, TACACS+ authentication • Storm Control
EMS	• INAS • Web Management
Management	• Serial / Telnet (CLI) • SNMPv1/v2/v3 • DHCP server, relay agent with option82 • Remote Monitoring (RMON) • Syslog, Port Mirroring

Sample Configuration