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.

Our complete line of standards-compliant, multi-service access platforms (MSAP), Optical Line Terminals (OLTs), and Ethernet network elements offer GPON, EPON, and Ethernet services that deliver triple-play services to residential and business markets.

The V5812G offers network operators a compact, cost-efficient solution for providing FTTx services to smaller populated areas. The V5812G provides a flexible solution for high-density, extended reach or network upgrade deployments supporting up to 128 subscribers with 4 GPON ports (a 1:32 split ratio), and 8 combo ports for optical or electrical GbE. Fully compliant with ITU-T G.984.4 standards, each GPON link supports up to 2.5Gbps downstream and 1.25Gbps upstream bandwidth, and offers dynamic bandwidth allocation (DBA) to seamlessly manage the high demands of video, VoIP and other applications.

The V5812G meets carrier-grader requirements for flexibility, reliability, and AC/DC redundant power.

Dasan’s PON technology provides the latest features targeted to improve performance, interoperability, support for new applications, and deployment scenarios.

Features

- 4 GPON ports / 8 combo GbE
- Compact “Pizza box” style design
- Flexible network integration
- Efficient Triple-play service delivery
- Flexible VLAN tagging support
- QoS for traffic prioritization and bandwidth management
- IGMP support for IPTV applications
- Fully Managed via Dasan’s INAS Element Manager
- SNMP v2/v3 with RMON and Alarming
Specifications

Flash Memory | 40MB
SDRAM | 512MB
Service Interface | 4 GPON ports (SFP, SC/PC type)
Uplink Interface | 8 Combo-type ports - combo with 100/1000Base-X (SFP) and 10/100/1000Base-T (RJ45)
MGMT | 1 10/100Base-TX (RJ45) port
Console | 1 Console (RS232) port
MAC Address | 16K
VLAN | 4K
Switching Capacity | 36Gbps
Power Voltage | AC type: 100-240VAC, 50/60Hz DC type: -48/60VDC
Power Consumption | AC type: 48W / DC type: 38W
Operating Temp. | -4 to 148°F (-20 to 65°C)
Storage Temp. | -40 to 158°F (-40 to 70°C)
Operating Humidity | 0 to 90% (non-condensing)
Dimensions (W x H x D) | 17.0 x 1.7 x 11.8 in (432 x 43 x 300 mm)
Regulatory Compliance | UL, FCC Part 15

Capabilities

Layer 2
- Standard Ethernet bridging
- Port/Subnet/Protocol-based VLAN
- Spanning Tree: STP, RSTP, MSTP
- 802.3ad Link Aggregation
- Flow Control

Layer 3
- IPv4 routing
- RIPv1/v2, OSPFv2, BGPv4
- Virtual Router Redundancy Protocol (VRRP)

Multicast
- IGMPv1/v2/v3
- PIM-SM/SSM
- IGMP snooping
- Multicast VLAN Registration (MVR)

QoS
- QoS and Marking: SP, WRR, DRR
- 4 queues per port

GPON
- ITU-T G.984 compliant
- Supports ITU-T G.984.4 ONT Management & Control Interface (OMCI)
- Remote ONT/ONU management
- Automatic ONT ranging

Security
- Secure Shell (SSH) v1/v2
- RADIUS, TACACS+ authentication
- Storm Control

Management
- Serial / Telnet (CLI)
- SNMP v1/v2/v3
- DHCP server, relay agent with option82
- Remote Monitoring (RMON)
- Syslog

Ordering Information
Chassis Part #: DPW:G-F-5812G0-B1

Sample Configuration

Provided by: Mega Hertz  800-883-8839   info@go2mhz.com   www.go2mhz.com