

V2224G-OP

FTTH/GPON MDU



Overview

The V2224G-OP is a 1 RU Layer 2 Gigabit Ethernet switch providing up to 24 GbE SFP(100/1000Base-X) subscriber service ports and 2 slots for uplink modules. For the uplink interface unit, there are 1-Port 1000Base-X (SFP) / E-PON / 10GBase-R (SFP+) and 2-Port 1000Base-X (SFP) modular type unit. Each uplink module can be inserted into two front slots. The V2224G-OP is a perfect solution for expanding networks, to allow network operators the ability to extend GbE services to small businesses and Multi-Dwelling Units (MDUs).

Dasan's PON technology adds new features targeted to improve performance, interoperability, services, support for new applications, and a variety of deployment scenarios.

Features

- 24 x 1GbE ports (based on hardware)
- Up to two 10GbE uplink connections
- No speed degradation by packet size
- Up to 1.25Gbps (upstream) / 2.5Gbps (downstream) data rate via GPON uplink connection
- L2/L3/L4 Traffic classification/Priority management
- Diverse QoS mechanisms (SP/WRR/DRR)
- Multicast Support for IP-TV : IGMP v2/v3
- IPv6 Hardware Ready Platform
- SNMPv2/v3 with RMON, Alarms
- DoS resilient platform: Broadcast/Multicast storm control
- Authentication by RADIUS, 802.1x

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Specification

Flash Memory	32MB
SDRAM	256MB
Service Port	24 100/1000Base-X ports (SFP)
Uplink Port	2 1000Base-X ports (SFP) 1 1000Base-X port (SFP) 1 EPON port (SC/PC) 1 10GBase-R port (SFP+)
MGMT Port	1 10/100Base-TX (RJ45)
Console Port	1 Console port (RJ45)
MAC Table	16K
VLAN	4K
Switching Capacity	88Gbps
Throughput	65.5Mpps
Operating Temp.	-20~60°C
Operating Humidity	5~90% (non-condensing)
Power Voltage	Single DC type: -48/60VDC Single AC type: 100-240VAC, 50/60Hz
Power Consumption	AC type: 48W [SMPS] DC type: 48W [SMPS]
Dimensions (W x H x D)	440 x 44 x 300 mm

Capabilities

Layer 2	<ul style="list-style-type: none"> Standard Ethernet bridging Port/subnet/protocol based VLAN 16K MAC address entries 4K VLANs Jumbo frame 9K Spanning tree (STP/RSTP/MSTP) 802.3ad link aggregation Port mirroring Flow control
QoS	<ul style="list-style-type: none"> Rate limiting per port Traffic scheduling (SP, WRR, DRR) 4 queues per port
GPON	<ul style="list-style-type: none"> Support 4K port-ID and 1K allocation-ID Support ITU-T G.984.4 ONT management & Control Interface(OMC) Remote ONT/ONU management Automatic ONT ranging GPON OLT compliant with ITU-T G.984
Security	<ul style="list-style-type: none"> SSHv1/v2 User authentication for user ID/password RADIUS, TACACS+ authentication Ethernet type / L4-based ACL
Multicast	<ul style="list-style-type: none"> IGMPv1/v2/v3 IGMP snooping Multicast VLAN Registration (MVR)
Management	<ul style="list-style-type: none"> Serial/Telnet (CLI) SNMPv1/v2/v3 RMON

Sample Configuration

