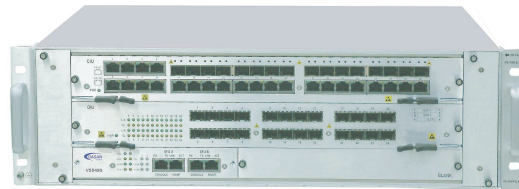


DASAN Networks V5548G

Compact Chassis 48-Port Gigabit Ethernet L3 Switch



DASAN Networks' V5548G is a compact chassis type Layer 3 Gigabit Ethernet switch. It contains 48 Gigabit Ethernet ports for service interface and 2 10Gigabit Ethernet ports for uplink connection, which makes a large amount of traffic be delivered with performance of a non-blocking wired-speed switching capacity.

The V5548G concentrates traffic originated from DSLAMs or access infrastructures through its Gigabit Ethernet ports and carries traffic delivery to the backbone network with its 10Gigabit Ethernet uplink ports. Also, it is ideal for use as a GE-PON OLT (Optical Line Termination) aggregation switch or as an alternative to bandwidth expansion over the existing L3 Fast Ethernet network.

This product is a mini chassis having 12 module slots at both front and back side. So it is easy to carry and rack-mountable and user can insert or pull in/out the hot-swappable modules to/from the chassis in simple and safe way.

They are 2 service interface modules, 1 uplink interface module, and 1 fixed management module on the front side. 2 switch Fabric modules and 2 power modules are on the rear of the chassis, and finally 4 fan modules are located at both ends of the front/back side.

The service interface slot can hold an OIU (Optical Interface Unit) including 24 1000 Base-X SFP ports or a CIU (Combo Interface Unit) including 8 fixed 10/100/1000Base-T and 16 GTX or 1000Base-X SFP combo ports, so that user can make a port connection according to your network environment with flexibility and adaptability. Also, user also can install a XIU (10G Interface Unit) including 2 10Gigabit XFP ports to the uplink interface slot to guarantee a huge amount of traffic delivery.

On the other hand, hiD6615 S411 meets carrier's requirements for high reliability, which is a substantial factor for aggregation switches to perform traffic forwarding to core network without failure. It ensures equipment-level reliability with switch fabric/power/fan module redundancy architecture.

Product Features

► High Performance Interface

V5548G delivers wire-speed switching capacity up to 176Gbps with 71Mpps forwarding rate.

► Quality of Service

It supports enhanced QoS (Quality of Service) features to ensure that network traffic is optimally classified, prioritized, and efficiently handled for multimedia and time-sensitive applications.

► Redundancy

With redundant switch fabric, power, and fan module architecture, reliable operation and service is guaranteed.

► Flexible Service Interfaces

Designed for maximum flexibility and scalability, users can select a service interface with all optical ones or mixed (optical and electrical) ones according to their network circumstances. It enables network managers to build adaptable networks with maximum cost efficiency and easy management.

► Easy System Management

It supports both CLI (Command Line Interface) and GUI for user-familiar system configuration and management.

► Network Management

User can manage the system remotely via SNMPv1/v2/v3 and MIB II in a convenient way.

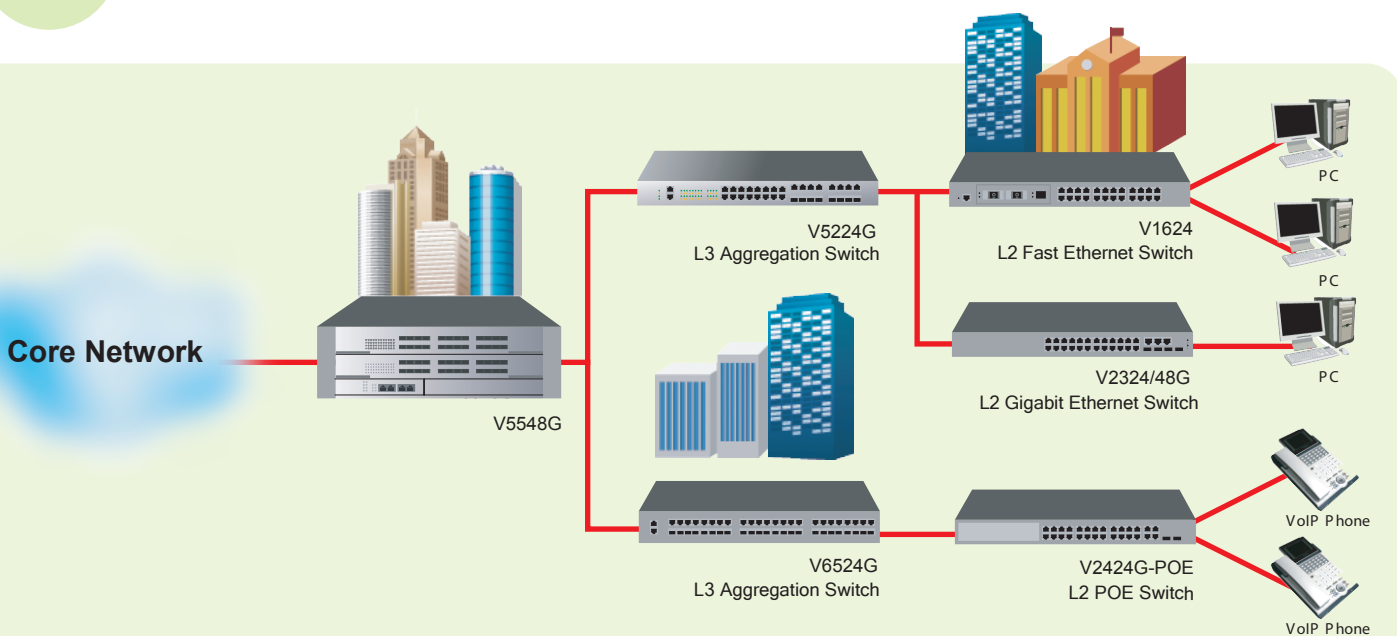
► Traffic Monitoring

Embedded RMON 4 groups perform maximum 48 ports of traffic monitoring and analysis in real-time, which allows administrators to discover raised alarms and copy with network problems.

► Advance Security

V5548G supports a comprehensive set of security features for connectivity and access control, including RADIUS (Remote Authentication Dial-In User Service), TACACS+ (Terminal Access Control System), IEEE 802.1x and others. It also supports SSH (Secure Shell) protocol for secure remote network management.

Network Configuration



Specifications

Flash Memory	40MB
DRAM	512MB
Service Interface	100/1000BASE-X SFP: 24 Ports/Slot (Max 2 SLOT) 10/100/1000BASE-TX RJ-45 Fixed 8 Ports + 100/1000BASE-X SFP or GTX Combo 16 Ports (Max 2 SLOT)
Uplink Interface	10G BASE-X XFP : 2 Ports (Max 1 SLOT)
MGMT Port	10/100 BASE-T (RJ-45 Type) : 1 Port
Console Port	RJ-45 connector
MAC Address	32K
VLAN NO.	4K
Jumbo Frame Packet Size	9K
Switching Capacity	136Gbps
Throughput	101Mpps
Power Supply (AC)	100 – 240 VAC, 50/60Hz
Power Supply (DC)	48/60 VDC
Power Consumption	190W
Operation Temperature	-20°C ~ 60°C
Storage Temperature	-40°C ~ 70°C
Operation Humidity	0 ~ 90%, non-condensing
Dimension (W x H x D)	440 x 132.5 x 335 (mm)

Standards Supported

IEEE 802.1D STP	RFC 1213 MIB II
IEEE 802.1p CoS	RFC 1215 Traps
IEEE 802.1Q VLAN	RFC 1493 Bridge
IEEE 802.1s MSTP	RFC 1643 Ether-like MIB
IEEE 802.1w RSTP	RFC 1757 RMON
IEEE 802.1x Port-based Authentication	RFC 1901 SNMP v2
IEEE 802.3 CSMA/CD	RFC 2138 RADIUS
IEEE 802.3u Fast Ethernet	RFC 2236 IGMP v2
IEEE 802.3x Flow Control	RFC 2328 OSPF
IEEE 802.3z Gigabit Ethernet	RFC 1058 RIP v1
IEEE 802.3ad Link Aggregation	RFC 1771 BGP v4
RFC 768 UDP	RFC 1058 RIP v2
RFC 783 TFTP	RFC 2274 SNMP v3
RFC 791 IP	RFC 2362 PIM-SM
RFC 793 TCP	RFC 3569 PIM-SSM
RFC 854 Telnet	RFC 3046 DHCP Server/Relay
RFC 1157 SNMP v1	RFC 3195 Syslog
	RFC 3376 IGMP v3

Functions

Categories	Functionalities
L2 Features	Standard Ethernet Bridging Port / MAC/ IP SA/DA / TOS/DSCP-based VLAN VLAN stacking/translation Spanning tree (STP, RSTP, and MSTP) 802.3ad Link aggregation based on MAC or IP Ethernet ring protection (ERP)
L3 Features	Static Routing RIPv1/v2 OSPFv2 BGPv4 VRRP
Multicast	IGMPv1/v2/v3 IGMP snooping IGMP proxy IGMP static join MVR PIM-SM/SSM
QoS	Classification according to ingress port, 802.1q (VLAN tag), 802.1 Priority, TOS/DSCP, IP SA/DA, and L4 Info Traffic policing and shaping 8 queues per port Traffic scheduling (SP, WRR, DRR) Conditional Rate Limiting
Security	Storm control SSH 802.1x port/MAC based authentication IP source guard Port / MAC / Ether type / L4-based ACL(Access Control List) DoS protection Outband management
Management	Serial/Telnet (CLI) SNMPv1/v2/v3 DHCP server, client, relay agent with option82 Link layer discovery protocol (LLDP) Single IP Management IEEE 802.3ah EFM OAM RMON 4 Groups Syslog

Ordering Information

Base

- V5548G 12-slot base chassis
- 2 slots : 24-Port subscriber interface module
 - 1 slot : 10GE interface module
 - 1 slot : Management interface (LED, console, MGMT interface included, fixed type)
 - 2 slots : Switching fabric unit
 - 2 slots : AC or DC power module
 - 4 slots : Fan module

Switch Fabric Option

Switching Fabric Module
(40MB Flash / 512MB DRAM)

Service Interface Option

24-Port 100/1000BASE-X SFP blank service interface module
16 GE Combo (SFP or GTX) + 8GTX service interface module

Uplink Interface Option

2-Port 10GE XFP Module

Power and Fan Option

AC Power Module
DC Power Module
Fan Module

SFP Option

SFP-FE-MMF2
SFP-FE-MMF2-850
SFP-FE-SMF15
SFP-FE-SMF40
SFP-GE-SX
SFP-GE-LX10
SFP-GE-LX20
SFP-GE-LX40
SFP-GE-LX20-1550

XFP Option

XFP-10GE-SR
XFP-10GE-LR
XFP-10GE-ER



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H.Q.: HUMAX Village 6F 11-4, Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-825, KOREA
Tel. 82-31-622-6500/ +82-70-7010-1000 Fax. 82-31-622-6501

Factory : 401 E-dong, Bundang Techno Park, 151 Yhatap-dong, Bundang-gu, Sungnam-si, Kyungki-do, 463-070
Tel. 82-31-788-9700/ +82-70-7010-1200 Fax. 82-31-788-9777

Technology Service Center : HUMAX Village 4F 11-4, Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do,
463-825, KOREA

Help Desk : 1588-7080

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