DIGISOL®

SWITCHING SOLUTIONS

INDIA'S OWN IT NETWORKING CHOICE

DIGISOL L3 10G PoE Switch

DG-GS2954HPSE

3 YEARS WARRANTY*



Key Features:-

- 48 10/100/1000Mbps BaseT ports
- 6x1/10G SFP+ fiber slots
- Supports VSS Stacking method
- L3 features like RIP, OSPF
- Advanced QoS
- 4KV Thunder protection
- STP, RSTP, MSTP
- ZTP (Zero-Touch-Provisioning)
- L2 multicast functions like IGMP snooping
- ISSU - Service Software Up-grade

Introduction:-

DIGISOL DG-GS2954HPSE is a new generation of aggregation 10G switches with high performance and advanced L3 features. The series support robust L3 features like VLAN configurations, Static and Dynamic Routing, Ring protocols and port security and many other switching services. The series also supports non-stop upgrade, continuous forwarding, graceful restarting and redundancy protection.

Product Characteristics:-

VSS (Virtual Switch System)

VSS is an innovative way of forming a switch cluster by grouping 2 or more physical devices to a virtual one device for easy management and load sharing. By virtualizing multiple physical devices into one, increases the performance, reliability and management of the virtual system and are superior to the physical ones.

Based on the advanced distribution mechanism and efficient cross-physical link aggregation link function, the logic control plane, service control plane and service data plane are separated. Thus, the device can support continuous layer-3 routing forwarding, avoiding service interruption as a result of a single point of failure. VSS realizes single IP management, greatly improving the networking efficiency and lowering the operating cost

Multicast Routing

Supports layer-2 and layer-3 multicast routing protocol, which enable the device can access to IPTV, HD video surveillance and HD video conference. Supports layer-3 routing protocol and super-large routing table capacity, which enables the device is available in large campus networks, enterprise networks and industry networks.

Versatile IPv6 Solution

Supports the IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, DHCPv6, etc. Supports Ping, Traceroute, Telnet, SSH, ACL, MLD, MLD Snooping, IPv6 static routing, RIPng, OSPFv3 and BGP4+, etc. Supports IPv6 tunnel: manual tunnel, automatic tunnel, GRE tunnel, 6to4, ISATAP Supports IPv4 transits to IPv6: IPv6 manual tunnel, automatic tunnel, 6 to 4 tunnel, ISATAP tunnel.

Industrial Ethernet Ring Technology

Supports industry-level EAPS and ERPS, and their protection recovery time is less than 50ms. Their high reliability is represented by the null packet loss, which has been proved by many years of application in the Grid, rail transportation and defense systems.

Intelligent PoE+

PoE models supports IEEE 802.3af/at PoE standard, and power mapping scales up to a maximum of 760W of PoE+ power on 24 and 48 port switches. Capable of supporting non-stop PoE power supply. The PoE Switches supports manual and dynamic PoE power allocation; up to 6KV thunder-proof of the PoE port and power supply

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Complete Security Mechanism

Equipment-Level Security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP- related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions. Security Authentication Mechanism: IEEE 802.1x, Radius and Tacacs+ Enhanced Service Security Mechanism: supports the plaintext or MD5 authentication of relevant routing protocol, URPF, deep inspection of hardware packet, control packet and data packet and filtering technology.

Innovative Energy-Saving Design

Intelligent power management: The power system of DG-GS2954HPSE supports real-time monitoring the device and the slow-start. It is also power-saving. Intelligent fan management system: The fan system of DG-GS2954HPSE supports automatic speed regulation, which efficiently slows down the fan speed and mitigates the noise. Complies with the international standard IEEE 802.3z

Flexible and Convenient Management and Maintenance

Supports management modes such as the console port, Telnet, SSH, web management for easy and efficient installation and debugging. Supports TFTP-patterned file upload/download management.

Supports ISSU (In-Service Software Upgrade). Support its SNMP and DIGISOL NMS smart network management platform to realize automatic equipment discovery, network topology management, equipment configuration management, performance data statistics and analysis and trouble management.

Technical Specifications:-

Item	DG-GS2954HPSE
Ports	48x10/100/1000Mbps PoE/PoE+ ports
Uplink	6x1/10G SFP/SFP+ slots
Console	1 RJ45 Port
Backplane	216 Gbps
Forwarding rate	162 Mpps
Physical Specifications	
Chassis Dimensions (WxDxH) (mm)	442.5 x 355 x 44.6
Package Dimensions (WxDxH) (mm)	576 x 448 x 94
PoE	Max 760W with dual power supplies (Max: 30W per port)
PoE	Max 370W with single power supply
Total output BTU (1000BTU/H=293W)	3412.96
Noise@25°C (dBA)	53
MTBF(H)	>20,000
Forwarding mode	Store-forward
Flash (MB)	16
DRAM (MB)	512
MAC	32K
Buffer size(Mb)	2
Jumbo frame	9K
Routing table IPv4	12K
IPv6	4K
ARP table IPv4	8K
IPv6	2K
Total SVI	10

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Technical Specifications:-

MAIN FEATURES:

Item	DG-GS2954HPSE
VLAN	4K Active VLAN,
	QinQ & Selective QinQ,
	GVRP,
	Voice-VLAN
Spanning Tree	802.1D (STP),
	802.1W (RSTP) and 802.1S (MSTP)
	BPDU guard, Root guard and Loopback guard
Multicast	PIM-SM, PIM-DM, IGMP v1/v2/v3
	IGMP Snooping, IGMP Fast Leave
	MVR, IGMP filter
IPv4	Static routing, RIP v1/v2, OSPF, BGP, PBR, ECMP
	BFD for OSPF, BGP
DHCP	DHCP server/relay/client
	DHCP snooping/option82
MPLS	Multi-VRF
IPv6	ICMPv6, DHCPv6, ACLv6 and IPv6, Telnet
	IPv6 neighbor discovery, Path MTU discovery
	MLD V1/V2, MLD snooping
	IPv6 Static Routing, RIPng, OSPFv3, BGP4+
	Manual tunnel, ISATAP tunnel, 6 to 4 tunnel
QoS	CAR, HQoS, MAC/IP/TCP/UDP/VLAN/COS/DSCP/TOS based QoS, 802.1P/ DSCP priority re-labeling, SP, WRR, and “SP+WRR”, Tail-Drop, WRED, flow monitoring and traffic shaping
Security	Port isolation, Port security, and “IP+ MAC+port” binding, MAC sticky, DAI & IP source guard, PPPoE+
	IEEE 802.1x, Radius and Tacacs+
	L2/L3/L4 ACL flow identification and filtration Anti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc.
	Broadcast/multicast/unknown unicast storm-control
	MD5, SHA-256, RSA-1024, AES256, etc.
Reliability	Static/LACP link aggregation, Interface backup
	VSS virtual-stacking
	EAPS and ERPS
	URPF, LLDP
	ISSU
	VRRP
Management	Console, Telnet, SSH v1/2, HTTP, HTTPS
	SNMP v1/v2/v3, RMON
	TFTP, FTP, SFTP
	NTP, SPAN, RSPAN
	sFlow

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Technical Specifications:-

MAIN FEATURES:

Item	DG-GS2954HPSE
Accessories	Power cord, Rackmount kits, Console cable
Environment	Operating temperature: 0°C -50°C
	Operating humidity: 10%-90% non-condensing
	Storage temperature: -20°C -70°C
	Operating humidity: 5%-95% non-condensing

Rear View :



Ordering Information:-

DG-GS2954HPSE-B1: DIGISOL 48-Port Gigabit PoE L3 Switch with 6-Port 10G SFP+ ports. Supports 2 power slots with one hot-swap AC-220V power supply by default. PoE: 370W

DG-GS2954HPSE-B2: DIGISOL 48-Port Gigabit PoE L3 Switch with 6-Port 10G SFP+ ports. Supports 2 power hot-swappable power supplies. PoE: 760W

*Warranty shall be subject to terms and conditions specified in the DIGISOL PRODUCT WARRANTY displayed on the website of the company.

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