DIGISOL®

SWITCHING SOLUTIONS

INDIA'S OWN IT NETWORKING CHOICE

DIGISOL 10G L3 Fiber Switch

DG-GS2954HFSE

3 YEARS WARRANTY*

Key Features:-

- Supports 24*1G RJ45, 24*1G SFP & 6*10G SFP+ Ports
- Versatile IPv6 Solution
- Supports VSS stacking
- Standard 19-inch rack-mount
- Dual Hot Swappable AC power supply
- Supports ERPS ring technology
- Supports Static Routing, RIPng, OSPFv3, BGP4+



Introduction:-

DIGISOL DG-GS2954HFSE is a next generation aggregation 10GE switch. It is targeted at medium to large networks like government and enterprise networks, Internet cafe and other networking environments. It is developed on the basis of high-performance hardware and a software platform.

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. Supports perfect security authentication mechanisms: IEEE 802.1x, Radius and TACACS+. Supports storm/multicast/unicast limit to ensure the normal running of equipment in harsh network conditions. Supports a perfect ring detection mechanism to ensure the long-term stable running of network. Supports port isolation within the same VLAN, DHCP-Snooping, and IP plus MAC plus Port binding for ensuring user data security.

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, ISATAP Supports IPv4 transits to IPv6: IPv6 manual tunnel, automatic tunnel, 6 to 4 tunnel, ISATAP tunnel.

Ethernet Ring Protocol 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.

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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-GS2954HFSE supports real-time monitoring the device and the slow-start. It is also power-saving. Intelligent fan management system: The fan system of DG-GS2954HFSE 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-GS2954HFSE
Interface	24*10/100/1000Mbps RJ45, 24*1000M SFP, 6*10G SFP+ Ports
	Console 1 RJ45 Port
Backplane	216 Gbps
Forwarding rate (Mpps with 64 bytes)	162 Mpps
Flash (MB)	16
DRAM (MB)	512
Jumbo frame	9K
MAC	32K
Buffer size (Mb)	2
Interface VLAN	1K
Routing table IPv4/IPv6	12K/6K
Chassis - Dimensions (WxDxH)(mm)	440x350x44
Package Dimensions (WxDxH)(mm)	576x448x94
Power supply	AC 100-240V (Supports AC+AC hot-swappable PSUs) ***Check ordering info for more details
Fan	2
Total output BTU (1000BTU/H=293W)	255.97
Noise@25°C (dBA)	45
MTBF(H)	>200,000

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Technical Specifications:-

MAIN FEATURES:

Item	DG-GS2954HFSE
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 route, RIP v1/v2, OSPF, BGP, PBR, ECMP
	BFD for OSPF, BGP
IPv6	ICMPv6, DHCPv6, ACLv6
	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 (IPv4), PPPoE+
	IEEE 802.1x, AAA 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.
DHCP	DHCP server/relay/client
	DHCP snooping/option82

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Technical Specifications:-

MAIN FEATURES:

Item	DG-GS2954HFSE
Reliability	Static/LACP link aggregation, Interface backup
	EAPS and ERPS
	ISSU Uninterrupted system upgrade
	Max upto 8 units in a Stack (Recommended 4 units)
	VRRP, UDLD, URPF
	1+1 Power backup
Management	Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON
	TFTP, FTP, SFTP
	NTP, SPAN, RSPAN
	sFlow
Accessories	Power cord
	Rack mounting kits
	Console cable
Environment	Operating temperature: 0°C -50°C
	Operating humidity: 10%-90% non-condensing
	Storage temperature: -20°C to -70°C
	Storage humidity: 5%-95% non-condensing

Rear View :



Ordering Information:-

DG-GS2954HFSE-B1: DIGISOL 24-Port Gigabit RJ45 + 24-Port Gigabit SFP + 6-Port 10G SFP+ L3 Stackable Managed Switch (default loaded with single hot-swappable AC-220V power supply)

DG-GS2954HFSE-B2: DIGISOL 24-Port Gigabit RJ45 + 24-Port Gigabit SFP + 6-Port 10G SFP+ L3 Stackable Managed Switch (default loaded with 2 hot-swappable AC-220V power supply)

*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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