SWITCHING SOLUTIONS

DIGISOL Switches

DG-GS4934FSE

Key Features:-

- Performance and Scalability
- VSF (Virtual Switching Framework)
- Strong Multicast
- Easy High Reliability network
- Comprehensive QoS
- Enhanced Security
- Abundant IPv6 Support
- Green-Energy

5 YEARS WARRANTY

Introduction:-

DIGISOL DG-GS4934FSE next-generation switch has advanced hardware and software architecture design Built in dual redundant power supplies These switches provide high availability, scalability, security, energy efficiency, and ease of operation with innovative features such as VSF and redundant power supplies.

Performance and Scalability

With high switching capacity, DG-GS4934FSE support wire-speed forwarding and high performance for IPv4 and IPv6 protocols.

VSF(Virtual Switching Framework)

Virtual Switch Framework can virtualized multiple DIGISOL switches into one logical device, achieving the sharing of information and data tables between different switches in the LAN. The performance and ports density of virtualized device are greatly enlarged by times under VSF. VSF also simplifies management work for network administrator and provides more reliability

Rich L3 Features

DG-GS4934FSE RIP, OSPF and BGP provide dynamic routing by exchanging routing information with other Local switches and routers. With DG-GS4934FSE, customers could easily achieve Policy based Route(PBR), which is important when they need multi exit application.

Strong Multicast

DG-GS4934FSE supports abundant multicast features. In Layer 2, such as IGMPv1/v2/v3 snooping and fast leave. Multicast protocols such as IGMPv1/v2/v3, PIM-DM, PIM-SM, PIMSSM and even MSDP. With Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detect functions; DG-GS4934FSE provides great application experience for customer.

Easy High Reliability network

MRPP is Multi-layer Ring Protection Protocol, which is DIGISOL private fast Ethernet ring protocol. Comparing to spanning tree protocol, it has advantages of fast convergence, simple protocol calculation, less system resources cost and so on, which can improve the reliability of operation.

Comprehensive QoS

With 8 queues per port, DG-GS4934FSE enable differentiated management of up to 8 traffic types. The traffic is prioritized according to IEEE802.1p, DSCP, IP precedence and TCP/UDP port number, giving optimal performance to real-time applications such as voice and video. DG-GS4934FSE also supports Bi-directional rate-limiting, per port or traffic class, preserves network bandwidth and allows full control of network resources.

Enhanced Security

IEEE 802.1X port-based access control and MAC-based access control ensure all users are authorized before being granted access to the network. Ingress/Egress Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets based on headers information. And for some services are based on time, the product can support time based ACL to match the requirement. Secure Shell (SSH) encrypts network management information via Telnet providing secure network management. RADIUS Authentication enables centralized control of the switch and restricts unauthorized users from altering the configuration of the switch.

Abundant IPv6 Support

DG-GS4934FSE supports IPv6 switching and routing based on hardware for maximum performance. With increased network devices growing the need for larger addressing and higher security become critical, DG-GS4934FSE will be a right product to meet this requirement.

Green-Energy

Temperature monitoring, alarming, automatic cooling, energy saving features are realized on DG-GS4934FSE. According to the temperature monitoring, Fan speed can be adjusted or stopped to reduce energy consumption and noise.

Technical Specifications:-

HARDWARE FEATURES:

	DG-GS4934FSE
Physical Ports	8 x 10/100/1000BaseT + 24 x 10GE(SFP+) + 2 x 40GE(QSFP+)
Management Port	1 x RJ45 Ethernet Management port
	1x Console port
	1x USB2.0 interface
Performance	
Switching Capacity	656Gbps
Throughtput	488Mpps
Jumbo Frame	10K
MAC Address	32K
ARP Table	16K
Routing Table	16K
ACL Table	3K
L3 Interface	Max 2K
Physical	
Dimension (W*H*D)	440 x 44 x 320 (mm)
Relative Humidity	10%~90% non-condensing, storage 95%
Temperature	Working 0°C~50°C, storage -40°C~70°C
Power Supply	AC: 100~240VAC, 50~60Hz, + 48VDC
Power Consumption	<85W

MAIN FEATURES:

L1, L2 Features
- IEEE802.3(10Base-T),
- IEEE802.3u(100Base-TX),
- IEEE802.3z(1000BASE-X),
- IEEE802.3ab(1000Base-T),
- IEEE802.3ae(10GBase), IEEE802.3x,
- IEEE802.3ak(10GBASE-CX4)
- IEEE802.3ba
- Port loopback detection
- LLDP and LLDP-MED

- UDLD
- 802.3ad LACP, max 128 group trunks with max 8 ports for each trunk
- LACP load balance
- N:1 Port Mirroring
- RSPAN
- IEEEE802.1d(STP)
- IEEEE802.1w(RSTP)
- IEEEE802.1s(MSTP)
- Root Guard

- BPDU Guard
- 802.1Q, 4K VLAN
- MAC VLAN, Vocie VLAN, PVLAN, Protocol VLAN, Multicast VLAN
- QinQ, Selective QinQ, Flexible QinQ
- GVRP
- N:1 VLAN Translation
- Broadcast/Multicast/Unicast Storm Control
- IGMP v1/v2/v3 Snooping & L2 Query

Technical Specifications:-

- ND Snooping
- MLDv1/v2 Snooping
- Port Security
- Flow Control: HOL, IEEE802.3x
- Bandwidth Control

L3 Features
- Static Routing, RIPv1/v2, OSPFv2, BGP4
- OSPFv3, BGP4+
- OSPF multiple process
- LPM Routing
- Policy-based Routing(PBR) for IPv4 and IPv6
- VRRP
- URPF
- ECMP
- BFD
- IGMP v1/v2/v3, IGMP Proxy,
- DVMRP, PIM-DM, PIM-SM, PIM-SSM, Any Cast RP, MSDP
- Static Multicast Route
- Multicast Receive Control
- Illegal Multicast Source Detect
- ARP Guard, Local ARP proxy, Proxy ARP, ARP Binding, Gratuitous ARP, ARP Limit
- Anti ARP/NDP Cheat, Anti ARP/NDP Scan
- DNS Client, DNS Relay

IPv6
- ICMPv6, ND, DNSv6
- IPv6 LPM Routing,IPv6 Policy-based Routing(PBR)

- IPv6 VRRPv3, IPv6 URPF, IPv6 RA
- RIPng, OSPFv3, BGP4+
- MLD Snooping,IPv6 Muticast VLAN
- MLDv1/v2, PIM-SM/DM for IPv6,
- IPv6 Any Cast RP, IPv6 ACL, IPv6 QoS

QoS
- 8 Queues
- SP, WDRR, SWDRR
- Traffic Classification Based on 802.1p COS, ToS, DiffServ DSCP, ACL, Port number
- Traffic Policing
- PRI Mark/Remark

ACL
- IP ACL, MAC ACL, IP-MAC ACL
- Standard and Expanded ACL Based on source/destination IP or MAC, IP Protocol, TCP/UDP port, DSCP, ToS, IP Precedence, VLAN, Tag/Untag, CoS
- REDIRECT and Statistics
- Rules can be configured to port, VLAN, VLAN routing interfaces
- Time Ranged ACL

Security
- 802.1x AAA
- Port, MAC based authentication
- Accounting based on time length & traffic
- Guest VLAN and auto VLAN
- RADIUS for IPv4 and IPv6
- TACACS+ for IPv4 and IPv6
- MAB

DHCPv4/v6
- DHCP Server/Client for IPv4/IPv6
- DHCP Relay/Option 82
- DHCP Snooping/Option 82

Traffic Monitor
- sFlow Traffic Analysis

Security Network Management
- CLI, WEB, Telnet, SNMPv1/v2c/v3 through IPv4 and IPv6
- Syslog and external Syslog Server
- HTTP SSL
- SNMP MIB, SNMP TRAP
- FTP/TFTP
- SNTP/NTP
- RMOM 1,2,3,9
- Authentication by Radius/TACACS
- SSH v1/v2
- Dual firmware images/ Configuration files
- 802.3ah OAM, 802.1ag OAM

Data Center Features
- VSF (Virtual Switch Framework)

1000 Mbps | **S-flow** | **IPV6** | **L3**

Ordering Information:-

DG-GS4934FSE: DIGISOL 8 x 10/100/1000Base-T (Rj45), AC + 48VDC power supply.

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

DIGISOL is a Subsidiary of Smartlink Holdings Limited