

DIGISOL Full Fiber L3 Intelligent Switch with 10G Uplink

DG-GS4930FSE

Key Features:-

- Supports wire-speed L2/L3 forwarding
- High routing performance for IPv4 and IPv6 protocols
- Advanced Security Features including RADIUS & TACACS+ Authentication
- ERPS (Ethernet Ring Protection Switching)
- Rich L3 Features (RIP, OSPF, BGP, IS-IS)
- Easy to achieve Policy-based-routing (PBR)
- 6-4 Tunnel, ISATAP Tunnel, GRE Tunnel
- Virtual Switch Framework : VSF Stacking (Upto 4 units)
- MRRP (Multiple Ring Resilience Protocol)
- Supports Multicast Features including MVR (Multicast VLAN Register)
- Supports Dual Firmware images and configuration files
- Traffic Analysis through sflow
- Multiple Secure Network Management Options High Availability and Scalability



Introduction:-

DIGISOL DG-GS4930FSE switch is a Layer 3 Gigabit fiber series switch. It supports full stackable routing features through built-in 10G uplink ports. Advantage of using a 6x10G uplink ports allow enough interface for uplink while keeping 2x10G slots occupied for VSF stacking. . It supports high availability, scalability, security, energy efficiency, and easy operation with rich L3 features. It is ideal for aggregation or access layer for all types of LAN networks.

Performance and Scalability

With high switching capacity, DG-GS4930FSE support wire-speed of L2/L3 forwarding and high routing performance for IPv4 and IPv6 protocols. The 10 Gigabit Ethernet connectivity can be accomplished using a hot-pluggable 10 Gigabit SFP+ transceiver over multimode or single mode fibers (The distance depends on the optical module chosen).

High-Reliability network

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

Rich L3 Features

DG-GS4930FSE delivers high-performance, hard-ware-based IP routing. RIP, OSPF, ISIS and BGP provide dynamic routing by exchanging routing information with other Layer 3 switches and routers with DG-GS4930FSE, customers could easily achieve Policy-based Route (PBR), which is important when they need a multi exit application.

VSF (Virtual Switch Framework)

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

Rich IPv6 Support

DG-GS4930FSE supports IPv6 switching and routing based on hardware for maximum performance with increased network devices, the need for larger addressing and higher security become critical. Digisol's DG-GS4930FSE will be the right product to meet this requirement.

Strong Multicast and Comprehensive QoS

DG-GS4930FSE supports L2/L3 multicast protocols such as IGMPv1/v2/v3 and also supports Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detect functions.

DG-GS4930FSE supports 8 queues per port with 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. The switch also supports Bi-directional rate-limiting, per port or traffic class preserves network bandwidth, and allows full control of network resources.

Technical Specifications:-

| Item | DG-GS4930FSE |
|----------------------|---|
| Physical port | 24*100/1000Base-X(SFP) + 6*10GbE (SFP+) |
| Management port | Auto-MIDX |
| | 1 x RJ45 Ethernet Management port |
| | 1x Console port |
| | 1x USB2.0 interface |
| Performance | |
| Switching Capacity | 168Gbps |
| Forwarding rate | 125Mpps |
| Jumbo Frame | 12K |
| MAC Address | 32K |
| ARP Table | 8K |
| Routing Table | 12K |
| ACL Table | 4K |
| Physical | |
| Dimension (W*H*D) | 440mm x 44mm x 380mm |
| Relative Humidity | 5%~95%, non-condensing |
| Temperature | Working 0°C~50°C, storage -40°C~70°C |
| Power Supply | AC:100~240VAC, 50~60Hz |
| Power Consumption | <50W |
| Main Features | |
| L1, L2 Features | IEEE802.3u (100Base-SX), IEEE802.3z (1000BASE-X), IEEE802.3ab (1000Base-T), |
| | IEEE802.3ae (10GBase), IEEE802.3x, IEEE802.3ak (10GBASE-CX4) |
| | 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 |
| | ERPS (G.8032) |
| | N:1 Port Mirroring |
| | RSPAN |
| | IEEE802.1d (STP), IEEE802.1w (RSTP), IEEE802.1s (MSTP) |
| | Root Guard, BPDU Guard, BPDU Tunnel |
| | 802.1Q, 4K VLAN |
| | MAC VLAN, Voice VLAN, PVLAN, Protocol VLAN, Multicast VLAN |
| | QinQ, Flexible QinQ |
| | GVRP |
| | N:1 VLAN Translation |
| | Broadcast / Multicast / Unicast Storm Control |
| | IGMP v1/v2/v3 Snooping and L2 Query |
| | ND Snooping, MLDv1/v2 Snooping |
| | Port Security |
| | Flow Control: HOL, IEEE802.3x |
| | Bandwidth Control |

Technical Specifications:-

| Item | DG-GS4930FSE |
|---------------------------|--|
| L3 Features | Static Routing, RIPv1/v2, IS-IS, OSPFv2, BGP4 |
| | OSPFv3, BGP4+ |
| | OSPF multiple processes |
| | VRF-Lite |
| | LPM Routing |
| | Policy-based routing (PBR) for IPv4 and IPv6 |
| | VRRP, URPF, ECMP, BFD |
| | IGMP v1/v2/v3, IGMP Proxy, |
| | 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 Cheat, Anti ARP Scan |
| | DNS Client, DNS Relay |
| | GRE Tunnel |
| IPv6 | 6to4 Tunnel, Configured Tunnel, ISATAP Tunnel, GRE Tunnel |
| | ICMPv6, ND, DNSv6 |
| | IPv6 LPM Routing, IPv6 Policy-based Routing (PBR) |
| | IPv6 VRRPv3, IPv6 URPF, IPv6 RA |
| | RIPng, OSPFv3, BGP4+ |
| | MLD Snooping, IPv6 Multicast VLAN |
| | MLDv1/v2, IPv6 Any cast RP, IPv6 ACL, IPv6 QoS |
| QoS | 8 Queues |
| | SP, WRR, SP+WRR |
| | WRED |
| | Traffic Classification Based on 802.1p COS, ToS, DiffServ DSCP, ACL, Port number |
| | Traffic Policing |
| | PRI Mark/Remark |
| ACL | IP ACL, MACACL, IP-MAC ACL |
| | Standard and Expanded ACLBased 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 | ACL rules can be configured to port, VLAN |
| | 802.1x AAA, Port, MAC-based authentication |
| | Accounting based on time length and traffic |
| | Guest VLAN and auto VLAN |
| | RADIUS for IPv4 and IPv6 |
| | TACACS+ for IPv4 and IPv6 |
| DHCPv4/v6 Traffic Monitor | MAB |
| | DHCP Server/Client for IPv4/IPv6, DHCP Relay/Option 82, DHCP Snooping/Option 82 |

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Technical Specifications:-

| Item | DG-GS4930FSE |
|------------------------------|---|
| Traffic Monitors | Flow Traffic Analysis |
| Security Net-work 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 |
| | RMON 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) |

Ordering Information:-

DG-GS4930FSE-B1: DIGISOL L3 6SFP+ Intelligent Fiber Switch with 24*100/1000Base-X(SFP) + 6*10GbE(SFP+). Single AC power supplies (Hot-swappable)

DG-GS4930FSE-B2: DIGISOL L3 6SFP+ Intelligent Fiber Switch with 24*100/1000Base-X(SFP) + 6*10GbE(SFP+). Dual AC power supplies (Hot-swappable)

*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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