

DIGISOL Dual Stack 10G Ethernet Routing Fiber Switch

DG-GS4628FSE2



Key Features:-

- Green Energy
- High Reliability & Advanced Security Features
- Ethernet Ring Protection Protocol
- Multicast Features



Introduction:-

DIGISOL DG-GS4628FSE2 next-generation 10G stackable routing switch has advanced hardware and software architecture design. These switches provide high availability, scalability, security, energy efficiency, and ease of operation with innovative features such as VSF. It is ideal for aggregation or access layer as its high performance, availability and reliability.

Key Features and Benefits:-

- **Performance and Scalability**
With high switching capacity, DG-GS4628FSE2 support wire-speed L2/L3 forwarding and high routing performance for IPv4 and IPv6 protocols. DG-GS4628FSE2 fiberswitches support AC+12VDC RPS power supplies.
- **VSF (Virtual Switch Framework)**
Virtual Switch Framework can virtualize multiple DIGISOL switches into one logical device, achieving the sharing of information and data tables between different switches. 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-GS4628FSE2 delivers high-performance, hardware based IP routing. RIP, OSPF and BGP provide dynamic routing by exchanging routing information with other Layer 3 switches and routers. With DG-GS4600FSE series, customers could easily achieve Policy based Route (PBR), which is important when they need multi exit application.
- **Strong Multicast**
DG-GS4628FSE2 supports abundant multicast features. In Layer 2, such as IGMPv1/v2/v3 snooping and fast leave. L3 multicast protocols such as IGMPv1/v2/v3. With Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detect functions; DG-GS4628FSE2 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 Ethernet network operation.
- **Comprehensive QoS**
With 8 queues per port, DG-GS4628FSE2 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-GS4628FSE2 also supports Bi-directional rate-limiting, per port or traffic class, preserves network bandwidth and allows full control of network resources.

DIGISOL

SWITCHING SOLUTIONS



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 L2/L3/L4 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-GS4628FSE2 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-GS4628FSE2 will be a right product to meet this requirement.

Green-Energy

Temperature monitoring, alarming, automatic cooling, energy saving features are realized on DG-GS4628FSE2. According to the temperature monitoring, Fan speed can be adjusted or stopped to reduce energy consumption and noise.

Hardware Features

	DG-GS4628FSE2
Physical Ports	16 x 100/1000Base-X + 8x GE Combo + 4 x 10GE
Management Ports	1 x RJ45 Ethernet Management port
	1 x Console port
	1 x USB2.0 interface
Switching Capacity	128Gbps
Throughput	95Mpps
MAC address	16K
Jumbo Frame	10K
ARP Table	4K
Routing Table	1K
ACL Table	1K
Dimension (WxHxD) mm	440 x 44 x 240
Power Consumption	<34 W
Power Supply	AC: 100~240VAC, 50~60Hz + 12VDC RPS
Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to 70°C
Relative Humidity (non-condensing)	10% to 90% non-condensing, Storage 95%

Technical Specifications:-

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)
- 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
- ERSPAN
- 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, Selective 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

DIGISOL

SWITCHING SOLUTIONS



Technical Specifications:-

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,
- 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
- 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 ACL, IPv6 QoS

QoS

- 8 Queues
- SP, DWRR, 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 Accounting based ACL
- 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 and traffic
- Guest VLAN and auto VLAN
- RADIUS for IPv4 and Ipv6
- TACACS+ for IPv4 and Ipv6
- MAB

DHCPv4/v6 Traffic Monitor

- 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
- SNTTP/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)

* Feature available in Future Upgrade



Ordering Information:-

DG-GS4628FSE2: DIGISOL 10G Ethernet Routing Switch, 16 x 100/1000Base-X + 8 x GE Combo + 4 x 10GbE, AC + 12VDC RPS power supply

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

DIGISOL Logos are trademarks and/or registered trademarks of DIGISOL SYSTEMS LIMITED. Other trademarks, product, service and company names mentioned are the property of their respective owners. Information is subject to change without notice. The actual product appearance may differ from the one shown here. © 2024 DIGISOL SYSTEMS LIMITED. All rights reserved.

DIGISOL is a Subsidiary of Smartlink Holdings Limited

DIGISOL SYSTEMS LIMITED
CITIPOINT, 7th Floor,
Unit No. B-701, B-702 & B-703,
Andheri-Kurla Road, J. B. Nagar,
Andheri (East),
Mumbai - 400059, INDIA



1800-209-3444

www.digisol.com

helpdesk@digisol.com

@DIGISOLINDIA