

## DIGISOL L3 10G(SFP+) Intelligent Switches

### DG-GS4634SE2-B2

#### Key Features:-

- 24x1GE + 4x1GE(SFP) + 6x10G(SFP+)
- 1 modular AC+1 optional AC power supply
- 1 console, 1 USB, 1 RJ45 management port
- Forwarding performance: 131Mpps
- Switching capacity: 176 Gbps
- Auto MDI/MDIX MDIXS



#### Introduction:-

**DIGISOL** DG-GS4634SE2-B2 are L3 stackable routing switch series with 10G fiber uplink ports. DG-GS4634SE2-B2 has advanced hardware and software architecture design, with option for dual redundant power supplies. DG-GS4634SE2-B2 provides high availability, scalability, security, energy efficiency, and ease of operation with innovative features such as VSF (Virtual Switch Framework) and 3 fixed auto-adjusted fan units. It is ideal for high-density aggregation layer networks. For SMB, could be used as core switch.

#### VSF (Virtual Switch Framework)

Virtual Switch Framework can virtualize multiple Digisol series switches 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 enhanced under VSF. VSF also simplifies management work for the network administrator and provides more reliability.

#### Rich L3 Features

DG-GS4634SE2-B2 deliver high-performance, hard-ware-based IP routing. RIP, OSPF, and BGP provide dynamic routing by exchanging routing information with other Layer3 switches & routers. With DG-GS4634SE2-B2, customers could easily achieve a Policy-based Route (PBR), which is important when they need a multi exit application.

#### Strong Multicast

DG-GS4634SE2-B2 supports abundant multicast features. In Layer 2, such as IGMPv1/v2/v3 snooping and fast leave. L3 multicast protocols such as IGMPv1/v2/v3, PIM-DM, PIM-SM, PIM-SSM, and even MSDP. With Multicast VLAN Register (MVR), multicast receiver / sender control and illegal multicast source detect functions; DG-GS4634SE2-B2 provides a great application experience for the customer.

#### Easy High-Reliability network

G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in ring topology. DG-GS4600SE2 series support G.8032 v2 and can be deployed in a variety of complex network topologies including single ring, tangent ring, intersecting rings and double rings.

#### Comprehensive QoS

With 8 queues per port, DG-GS4634SE2-B2 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-GS4634SE2-B2 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 L2/L3/L4 headers Information for some services that 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.

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## SWITCHING SOLUTIONS



### Technical Specifications:-

| Item                 | DG-GS4634SE2-B2   |
|----------------------|---|
| Physical port        | 24x1GE + 4x1GE(SFP) + 6x10GE(SFP+)  |
| Management port      | 1 x RJ45 Ethernet Management port   |
|                      | 1x Console port   |
|                      | 1x USB2.0 interface   |
| <b>Performance</b>   |   |
| Switching Capacity   | 176Gbps   |
| Forward-ing Rate     | 131Mbps   |
| Jumbo Frame          | 16K   |
| MAC Ad-dress         | 96K   |
| ARP Table            | 16K   |
| Routing Table        | 1K  |
| ACL Table            | 1K  |
| L3 Interface         | Max 1K  |
| <b>Physical</b>      |   |
| Dimension (WxHxD)    | 440mmx 44mm x 360mm   |
| Relative Humidity    | 5%~90% non-condensing, storage 95%  |
| Temperature          | Working 0°C~50°C  |
|                      | Storage -40°C~70°C  |
| Power Supply         | 1 modular AC + 1 optional AC (100~240VAC, 50~60Hz)                                    |
| Power Consumption    | <85W  |
| <b>Main Features</b> | 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  |
|                      | 802.1Q, 4K VLAN   |
|                      | MAC VLAN, Voice VLAN, PVLAN, Protocol VLAN, Multicast VLAN                            |
|                      | QinQ, Selective QinQ, Flexible QinQ   |
|                      | GVRP  |
|                      | Broadcast / Multicast / Unicast Storm Control   |
|                      | IGMP v1/v2/v3 Snooping and L2 Query, IGMP Proxy                                       |
|                      | ND Snooping   |
|                      | MLDv1/v2 Snooping   |
|                      | Port Security   |
|                      | Flow Control: HOL, IEEE802.3x   |
| Bandwidth Control    |   |

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### Technical Specifications:-

| Item                      | DG-GS4634SE2-B2   |
|---------------------------|---|
| L3 Features               | Static Routing, RIPv1/v2, OSPFv2, BGP4  |
|                           | OSPFv3, BGP4+   |
|                           | OSPF multiple processes   |
|                           | Policy-based routing (PBR) for IPv4 and IPv6  |
|                           | VRRP  |
|                           | URPF  |
|                           | ECMP  |
|                           | BFD   |
|                           | DVMRP, PIM-DM, PIM-SM, PIM-SSM, Anycast 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  |
|                           | IPv6 Policy-based Routing (PBR)   |
|                           | IPv6 VRRPv3, IPv6 URPF, IPv6 RA   |
|                           | RIPng, OSPFv3, BGP4+  |
|                           | MLD Snooping, IPv6 Multicast VLAN   |
|                           | MLDv1/v2, PIM-SM/DM for IPv6, IPv6 Anycast RP, IPv6 ACL, IPv6 QoS   |
| QoS                       | 8 Queues  |
|                           | SP, WRR, 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 Accounting based ACL   |
|                           | Rules can be configured to port, VLAN   |
|                           | 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   |

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| Item                        | DG-GS4634SE2-B2  |
|-----------------------------|--|
| 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<br>SNMP MIB, SNMP TRAP FTP/TFTP Sntp/NTP RMON 1,2,3,9 Authentication by Radius/TACACS SSH<br>v1/v2 Dual firmware images/ Configuration files 802.3ah OAM, 802.1ag OAM |
| Data Center Features        | VSF (Virtual Switch Framework)   |

### Rear View :



### Ordering Information:-

**DG-GS4634SE2-B2:** DIGISOL 10G Ethernet Routing Switch, 24x1 GE + 4x 1 GE(SFP) + 6x 10GbE (SFP+), 1 modular AC + 1 optional AC 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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