



DIGISOL®

SWITCHING SOLUTIONS

DIGISOL 24/ 48 Port Gigabit Ethernet Access Layer 3 Switch

DG-GS4600SE Series

Key Features:-

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



Introduction:-

DIGISOL DG-GS4600SE is a series of Access Layer 3 Gigabit Ethernet switch designed for LAN networks. It supports comprehensive QoS, enhanced VLAN functions, Ethernet Ring Protection Protocol, classified bandwidth control, advanced security features, OAM (Operations, Administration and Maintenance), and manageability functions which fulfill the network requirements demanded by LAN networks.

DG-GS4600SE Series switches offers green features like IEEE 802.3az (Energy Efficient Ethernet), Fan-less design and Smart Fan feature, which can dramatically lower power consumption, achieve green energy and save the cost for the users. Equipped with the 24/ 48 GE ports, these series switches integrates advanced management and security functions to provide performance and scalability.

Hardware Features

	DG-GS4628SE	DG-GS4652SE	DG-GS4628HPSE	DG-GS4652HPSE
10/100/1000Mbps Ports	24	48	24	48
Switching Capacity	128Gbps	176Gbps	128Gbps	176Gbps
Max. Packet Forwarding Rate	96Mpps	132Mpps	96Mpps	105Mpps
MAC address	16K	16K	16K	16K
Jumbo Frame	9K	9K	9K	9K
Vlan Table	4K	4K	4K	4K
ACL Table	1K	1K	1K	1K
QoS Hardware Queues	8	8	8	8
Dimension (WxHxD) mm	443 x 44 x 230	443 x 44 x 280	442 x 43.6 x 280	442 x 43.6 x 330
Power Consumption	20 W	37 W	467 W	897 W
PoE	NA	NA	IEEE 802.3af (15.4 W) IEEE 802.1at (30 W) Total PoE Power: 370 W	IEEE 802.3af (15.4 W) IEEE 802.1at (30 W) Total PoE Power: 740 W
Operating Temperature	0°C to 50°C			
Storage Temperature	-40°C to 70°C			
Relative Humidity (non-condensing)	5% to 95%			



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Technical Specifications:-

MAIN FEATURES

Storage & Forwarding

- VLAN:
 - Port-based VLAN
 - IEEE802.1Q
 - Private VLAN
 - Protocol VLAN
 - Voice VLAN
 - MAC based VLAN
 - Q-in-Q, Selective QinQ, Flexible QinQ
 - VLAN Translation, N:1 VLAN Translation

DHCP:

- IPv4/ IPv6 DHCP Client
- IPv4/ IPv6 DHCP Relay Option 82, Option 37/38
- IPv4/ IPv6 DHCP Snooping
- IPv4/ IPv6 DHCP Server

IP Routing & Static Routing,

RIP V1/V2

SPANNING TREE PROTOCOL:

- 802.1D Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree
- BPDU Guard
- Root Guard
- BPDU Forwarding
- Multi process MSTP*

LINK AGGREGATION:

- 802.3ad Link Aggregation (128 Trunk Groups/ 8 Ports per Group)
- Load Balance

L2 Ring Protection:

- MRPP - Fast Link
- Loopback Detection

Multi-link Backup & Load Balance

- Enhanced Multi VLAN subnet Traffic Engineering (ULPP & ULSM)

SECURITY FEATURES

- IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL*
- Time Range ACL
- ACL on VLAN interface
- Storm Control based on packets & bytes
- Port Security, MAC Limit based on VLAN and Port
- Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding
- ND Snooping
- Dynamic ARP Inspection (DAI)
- IEEE 802.1x, Web Portal
- Authentication, Authorization, Accounting (AAA)
- Radius & TACACS+Authentication

MULTICAST

- IGMP Snooping (V1,v2,v3)
- IGMP Fast Leave
- MLD v1/ v2 Snooping
- MVR

QOS FEATURES

- 8 Hardware Queue per Port
- Bandwidth Control
- Classification based on
 - ACL (Access Control List)
 - VLAN ID - COS
 - TOS - DSCP
 - IPv6 Flow Label
 - Policy Based on Port & VLAN

- Remark DSCP, COS/ 802.1p, Precedence, TOS SP, WDRR, SWDRR, DWRR for Scheduling

MANAGEMENT FEATURES

- XModem/TFTP/FTP
- CLI, Telnet, Console
- Web/SSL (IPv4/IPv6)
- SSH (IPv4/IPv6)
- SNMPv1/v2c/v3
- SNMP Trap
- Public & Private MIB interface
- RMON 1,2,3,9
- Ping, Trace Route
- Syslog (IPv4/IPv6)
- SNT/NT/PT (IPv4/IPv6)
- Dual IMG, Multiple Configuration Files
- Port Mirror, CPU Mirror, RSPAN, ERSPAN
- sFlow - OAM*
- Dying GASP - ULDP
- LLDP/LLDP MED

GREEN Features

- IEEE 802.3az (Energy Efficient Ethernet)
- Auto FAN Speed Control, Temperature Alarm
- LED Shut-Off

* Feature available in Future Upgrade



Ordering Information:-

DG-GS4628SE: DIGISOL 24 Port Gigabit Ethernet Access Layer 3 Switch

DG-GS4652SE: DIGISOL 48 Port Gigabit Ethernet Access Layer 3 Switch

DG-GS4628HPSE: DIGISOL 24 Port Gigabit Ethernet PoE Access Layer 3 Switch

DG-GS4652HPSE: DIGISOL 48 Port Gigabit Ethernet PoE Access Layer3 Switch

*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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