



DIGISOL®

SWITCHING SOLUTIONS

DIGISOL Layer 2 Gigabit Dual Stack Intelligent Switch

DG-GS4652E

Key Features:-

- Energy Efficient with Energy saving feature & fan-less design
- Advanced Security features including RADIUS & TACACS+ Authentication
- Non-blocking Switching Architecture
- Supports Ethernet Ring Protection Switching (ERPS)
- Supports Multicast Features including MVR (Multicast VLAN Register)
- Supports 6KV surge protection



Introduction:-

DIGISOL DG-GS4652E switch is a Layer 2 Gigabit intelligent switch. It supports comprehensive QoS, enhanced VLAN functions (VLAN, Voice VLAN, QinQ, N:1 VLAN Translation etc), Ethernet Ring Protection Protocol (G.8032), classified bandwidth control, intelligent security control, OAM (Operations, Administration and Maintenance), manageability functions and Triple-Play services. DG-GS4652E switch also offers green features like IEEE 802.3az (Energy Efficient Ethernet), fan-less design feature which can dramatically lower power consumption. This switch with full GE ports and 4 SFP uplink ports integrates advanced management and security functions to provide performance and scalability.

Hardware Features :-

• Physical

- Ports : 48x10/100/1000Base-T + 4 x 1000Base-SFP slots
- Dimension(W×H×D) : 442 x 220 x 43.6 mm
- Power Input : 100~240VAC, 50~60Hz
- Temperature : Working 0°C~50°C, Storage -40°C~70°C
- Relative Humidity : 5%~95%,non-condensing

• Performance

- Switching Capacity : 104Gbps
- Forwarding Rate : 77.4Mpps
- MAC address : 16K
- Jumbo Frame : 12K
- ACL Table : 2048
- Queues Per Port : 8
- VLAN Table : 4K

Technical Specifications:-

MAIN FEATURES:-

• Storage & Forwarding

- VLAN:
- Port-based VLAN
- IEEE802.1Q
- Private VLAN
- Protocol VLAN
- Voice VLAN
- MAC 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

• Reliability

SPANNING TREE PROTOCOL:

- 802.1D Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree
- Root Guard
- BPDU Guard
- BPDU Forwarding
- LACP: 16 groups-8 ports



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Technical Specifications:-

• L2 Ring Protection

- MRPP - ITU-T G.8032
- Fast Link - Loopback Detection

• 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
- Authentication, Authorization, Accounting
- Radius & TACACS+

• Multicast

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

• QoS Features

- 8 Queue Per Port
- Bandwidth Control
- Flow Redirect
- Classification based on
 - ACL (Access Control List)
 - VLAN
 - ID - COS
 - TOS - DSCP
- Policy Based on Port & VLAN
- Remark DSCP, COS/ 802.1p, Precedence, TOS
- SP, WRR, SWRR, DWRR for Scheduling
- Match the IP fragmentation of message

• Maintenance & Operation Management

- 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
- Radius Authentication
- Syslog (IPv4/IPv6)
- SNTP/NTP (IPv4/IPv6)
- Dual IMG, Multiple Configuration Files
- Port Mirror, CPU Mirror, RSPAN, ERSPAN
- sFlow - OAM
- ULDP (Like Cisco UDLD)
- LLDP/LLDP MED

• Green Energy

- IEEE 802.3az (Energy Efficient Ethernet)
- FAN less and Smart FAN design
- LED Shut-Off

Ordering Information:-

DG-GS4652E: L2 Gigabit Intelligent Ethernet Switch with 48x10/100/1000Base-T and 4*1000Base-SFP ports

SFP modules supported:

- DG-SA1133-20 : 1000M, Single-mode, LC connector, 20km
- DG-SA1030: 1000M, Multi-mode, LC connector, 550m

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