DIGISOL®

SWITCHING SOLUTIONS

INDIA'S OWN IT NETWORKING CHOICE

DIGISOL 48 Port L3 Lite Switch

DG-GS2652E

3 YEARS WARRANTY*



Key Features:-

- 48*10/100/1000Mbps RJ45 ports
- 4*1000Mbps SFP ports
- STP/RSTP/MSTP protocols
- Support ERPS ring protocol
- Support Rich L2 features
- Supports L3 Lite routing features

Introduction:-

DIGISOL DG-GS2652E switch is a new generation of intelligent access switch to meet the networking and access requirements of enterprises, intelligent communities, hotels, office networks, and campus networks. DG-GS2652E is based on the new high-performance hardware and software platform, provides 48 auto-negotiating 10/100/1000Mbps ports, plus four Gigabit SFP fiber ports for connecting to higher bandwidth upstream devices. It uses store-and-forward technology combined with dynamic memory allocation to ensure effective bandwidth allocation to each port. It supports port-based VLAN ACLs for easy network monitoring, traffic policing, priority remarking, and data forwarding control. It also supports traditional STP/RSTP/MSTP Layer 2 link protection technologies to greatly enhance link fault tolerance and redundancy backup capabilities, ensuring stable network operation. It supports time-based ACL control for easy precise time-controlled access, port-based and MAC-based 802.1x authentication for easy user access permission settings, and comprehensive QoS policies and rich VLAN functions for easy management and maintenance. The built-in high-reliability wide-voltage input power supply design ensures the device can operate normally even with unstable grid voltage.

Product Characteristics:-

Rich L2 Ethernet Access Switch

Supports Ethernet ring protection protocol with protection switching time < 50ms; also supports STP/RSTP protocols, dual upstream primary/backup link protection, and LACP link aggregation, which are simple and efficient redundancy protection mechanisms to meet users' requirements for high reliability.

Powerful ACL functions, supporting access and control of data from Layer 2 to Layer 7, providing users with flexible and diverse policy control methods.

Supports ISSU (In-Service Software Upgrade) for non-disruptive system upgrades, ensuring uninterrupted forwarding of user data during system upgrades.

Rich Layer 2 multicast functions, including IGMP Snooping, user fast leave mechanism, and inter-VLAN multicast replication.

Rich QoS policies

Supports classification of complex flows based on VLAN, MAC, source address, destination address, IP protocol, priority, etc., and also supports remarking of priority, providing users with a reliable and effective means to optimize their services.

Offers flexible bandwidth control policies, supporting rate limiting based on ports or flows, ensuring line-rate forwarding on each port, thereby effectively guaranteeing the quality of network services.

Supports various queuing scheduling algorithms such as SP, WRR, or SP+WRR.

Comprehensive IPv6 solution

Fully supports the IPv6 protocol suite, including IPv6 Neighbor Discovery, ICMPv6, Path MTU Discovery, and other IPv6 features.

Supports IPv6-based Ping, Traceroute, Telnet, SSH, ACL, etc., to meet the needs of device management and service control in pure IPv6 networks.

Robust security mechanisms

Device-level security protection: Advanced hardware architecture design, hardware implementation of packet hierarchical scheduling and protection, supports protection against DoS, TCP SYN Flood, UDP Flood, broadcast storms, high traffic, and other attacks on the device; supports command-line hierarchical protection, with different management permissions for users of different levels.

Comprehensive security authentication mechanisms: Supports IEEE 802.1x, Radius, Tacacs+, etc., which can provide users with comprehensive security authentication mechanisms.

Supports suppression of broadcast, multicast, and unknown unicast packets to ensure normal operation of the device under adverse network conditions.

Robust loop detection mechanisms to ensure stable network operation over long periods.

Provides port isolation within the same VLAN, as well as security features such as DHCP-Snooping, IP+ MAC+ port binding, further ensuring the security of user data.

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Product Characteristics:-

Flexible and convenient management and maintenance

Supports multiple management methods such as Console, Telnet, and SSH.

Supports WEB-based management, which is simpler and more efficient, facilitating installation and debugging by engineering and maintenance personnel.

Supports file upload and download management via TFTP.

Supports ISSU (In-Service Software Upgrade) for non-disruptive system upgrades.

Supports the standard SNMP protocol. In combination with Boda's "NMS" intelligent network management platform, it can achieve functions such as automatic device discovery, network topology management, device configuration management, performance data statistics and analysis, and fault management. This simplifies network management and provides users with a brand-new experience.

Technical Specifications:-

Item	DG-GS2652E
Port Configuration	48 Gigabit Ethernet ports, 4 Gigabit optical ports
Switching Capacity	104 Gbps
Packet Forwarding Rate	78 Mpps
Chassis Dimensions	440x208x44mm
MAC Address Table	16K
Power Supply	AC：100V-240V, 50Hz±10%
Environmental Requirements	Operating temperature: 0°C-45°C
	Storage temperature: -40°C-70°C
	Operating humidity: 10%-90% RH non-condensing
	Storage humidity: 5%-90% RH non-condensing
MAC Switching	Supports static configuration and dynamic learning of MAC addresses
	Supports viewing and clearing of MAC addresses
	Configurable MAC address aging time
	Supports limiting the number of MAC addresses learned
	Supports MAC address filtering
VLAN	Supports 4K VLAN entries, Supports GVRP, Supports QinQ functionality,
	Supports Private VLAN, Supports Voice VLAN
Ring Network Protection	Supports 802.1D (STP), 802.1W (RSTP), 802.1S (MSTP)
	Supports BPDU protection, root protection, loop protection
	Supports EAPS (Ethernet Automatic Protection Switching)
	Supports ERPS (Ethernet Ring Protection Switching)
Multicast	Supports IGMP v1/v2Supports IGMP Snooping
	Supports IGMP Fast Leave
	Supports multicast group policies and limits on the number of multicast groups
	Supports multicast traffic replication across VLANs
IP Routing	Supports IPv4/IPv6 dual-stack protocol
	Supports static routing
	Supports RIP, OSPF dynamic routing
IPv6	Supports ICMPv6, ACLv6, IPv6 Telnet
	Supports IPv6 neighbor discovery
	Supports Path MTU discovery
	Supports MLD v1/v2Supports MLD Snooping

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Technical Specifications:-

Item	DG-GS2652E
DHCP	Supports DHCP Server
	Supports DHCP Relay
	Supports DHCP Client
	Supports DHCP Snooping
ACL	Supports Layer 2, Layer 3, Layer 4 ACL
	Supports IPv4, IPv6 ACL
	Supports VLAN ACL
QoS	Supports traffic classification based on fields in L2/L3/L4 protocol headers
	Supports CAR (Committed Access Rate) for traffic limiting
	Supports 802.1P/DSCP priority remarking
	Supports SP (Strict Priority), WRR (Weighted Round Robin), SP+WRR queuing scheduling methods
	Supports Tail-Drop, WRED (Weighted Random Early Detection) congestion avoidance mechanisms
	Supports traffic policing and traffic shaping
Security Features	Supports ACL-based flow identification and filtering security mechanisms for L2/L3/L4
	Supports protection against DDoS attacks, TCP SYN Flood attacks, UDP Flood attacks, etc.
	Supports suppression of multicast, broadcast, and unknown unicast packets
	Supports port isolation
	Supports port security, IP+MAC+port binding
	Supports DHCP Snooping, DHCP option82Supports IEEE 802.1x authentication
	Supports Radius, Tacacs+ authentication
	Supports command-line hierarchical protection
Reliability	Supports static/LACP link aggregation
	Supports UDLD (Unidirectional Link Detection)
	Supports Ethernet OAM (Operations, Administration, and Maintenance)
Management and Maintenance	Supports Console, Telnet, SSH
	Supports web-based management via browser
	Supports SNMP v1/v2/v3Supports file upload and download management via TFTP
	Supports RMON event history records

Ordering Information:-

DG-GS2652E: DIGISOL L3 Lite Managed switch with 48*10/100/1000Mbps ports and 4*1000M SFP port. Supports single power supply AC220V.

*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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