

**DIGISOL™**

SWITCHING SOLUTIONS

DIGISOL 24/48 Port Fast Ethernet Layer 2 Managed switch with 4 Combo Ports

DG-FS4528/DG-FS4552



Key Features:-

- Automatic Traffic Control
- Sflow
- Times based and IPv6 ACL
- Traffic Segmentation
- MAC Notification support



Introduction:-

DIGISOL DG-FS4528 and DG-FS4552 are Fast Ethernet Layer 2/4 switches featuring 28 and 52 ports; 24/48 100Base-TX ports and 4 combo Gigabit Ethernet RJ-45/SFP ports. It is ideal for desktop Fast Ethernet connectivity and wiring closet installations. Using IP Clustering for a virtual stack of up to 36 switches. The whole stack can be managed as a single entity with a single IP address. This switch is packed with features and is a cost effective solution that brings continuous availability, enhanced security and advanced QoS to the network edge, while maintaining simplicity of management.

Performance and Scalability

With 12.8 Gbps and 17.6 Gbps switching capacity, the DGFS4528 and DG-FS4552 delivers wire-speed switching performance on all ports. There are four Gigabit Ethernet combo ports for uplink flexibility, allowing copper or fiber uplinks.

Comprehensive QoS

4 egress queues per port enable differentiated management of up to 4 traffic types. Traffic is prioritized according to 802.1p and DSCP, giving optimal performance to real-time applications such as voice and video. Asymmetric bidirectional rate-limiting, per port or per traffic class, preserves network bandwidth and allowing maximum control of network resources. Voice vlan feature assigns an automatic QoS values to network sensitive traffic like voice and video.

Continuous Availability

IEEE 802.1w Rapid Spanning Tree Protocol provides a loop-free network and redundant links to the core network with rapid convergence, to ensure faster recovery from failed links, enhancing overall network stability and reliability. IEEE 802.1s Multiple Spanning Tree Protocol runs STP per VLAN base, providing Layer 2 load sharing on redundant links. IEEE 802.3ad Link Aggregation Control Protocol (LACP) increases bandwidth by automatically aggregating several physical links together as a logical trunk and providing load balancing and fault tolerance for uplink connections. IGMP snooping prevents flooding of IP multicast traffic and limits bandwidth intensive multicast traffic to only the subscribers. Broadcast Storm Control prevents faulty end stations from degrading overall system performance.

Enhanced Security

Port Security ensures access to switch ports based on MAC address. Thus limiting the total number of devices from using a switch port and protects against MAC flooding attacks. IEEE802.1x port-based or MAC-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard based RADIUS server. Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets based on source and destination MAC addresses, IP addresses, TCP/UDP ports. This is done by hardware, so switching performance is not compromised. Security Shell (SSH) and Secure Sockets Layer (SSL/HTTPS) encrypt network management information via Telnet and web, providing secure network management. TACACS+/RADIUS Authentication enables centralized control of the switch and restricts unauthorized users from altering the configuration of the switch. Private VLAN isolates edge ports to ensure user privacy.

Simple Management

Industry standard Command Line Interface (CLI) via console port or Telnet provides a common user interface and command set for users to manipulate the switch. Embedded user friendly web interface helps users quickly and simply configure switches. Four groups of RMON are supported for traffic management, monitoring and analysis. When upgrading firmware or fine tuning configuration, the dual software images and multiple configuration files can be used for backup. TFTP can be used to backup or restore firmware and configuration files.



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Technical Specifications:-

Physical Port

- 10/100 Base Tx :
DG-FS4528 : 24
DG-FS4552 : 48
- Combo ports (RJ45/SFP) : 4
- Console : RS232 (DB-9 Connector)
- 100Base-FX

Performance

- Switching Capacity :
DG-FS4528 : 12.8Gbps
DG-FS4552 : 17.6Gbps
- Forwarding Rate :
DG-FS4528 : 9.5Mpps
DG-FS4552 : 13Mpps
- MAC Address Table : 8k
- Vlan support : 256
- Priority Queues :
4 hardware queues per port
- Jumbo Frame : 10 Kbytes
- MSTP Instances : 9
- ACL Rules : 770

L2 Features

- Auto-negotiation for port speed and duplex mode Flow Control
- Spanning Tree Protocol
 - IEEE 802.1D Spanning Tree Protocol (STP)
 - IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
 - IEEE802.1s Multiple Spanning Tree Protocol (MSTP)
 - Auto edge/STP fast forwarding
 - Root Guard
 - BPDU Guard
 - BPDU Filter
 - Loopback detection
 - Violation Action :
Shutdown or Block
 - Release Mode : Auto or Manual
 - Traps support
- VLANs
 - IP subnet vlan
 - Port based vlan
 - MAC based vlan
 - Protocol VLAN
- GVRP
- VLAN trunking
- Q-in-Q
- Traffic Segmentation
- L2 Protocol Tunnel

- Link Aggregation
 - Static Trunk
 - IEEE 802.3ad Link Aggregation Control Protocol
 - Trunk groups: 8
- IGMP snooping
 - IGMP Querier
 - IGMP Snooping v1/v2/v3
 - IGMP Throttling/filtering
 - IGMP Immediate Leave
- MVR
- Mirror
 - Port Based
(One to One, Many to One)
 - VLAN based
 - MAC based
- Ethernet Ring protection Switching

QoS Features

- Traffic classification based
 - Port
 - IEEE 802.1p
 - DSCP
- Enhanced QoS (Shaping/Re-Marking)
- DiffServ
- Queue Mechanism
 - WRR
 - Strict Priority
- Port based Egress/Igress Rate Limiting with 64Kbps Granularity
- Flow based Rate Limit
- Voice vlan

Security Features

- 802.1x
 - Port-based with Up to 1024 uses per port
 - User based
 - VLAN assignment
 - EAPOL Pass Through
- MAC Authentication with up to 2048 Mac per port
 - Dynamic Vlan
 - Dynamic QoS
 - Authentication By-pass supported
- Web Authentication
- Port Security
 - 1024 MAC Per port
 - Violation action Trap and/or Shutdown
- ACL Rules Based on
 - Ipv4

- Ipv6
- ARP
- Mac
- Time
- AAA Model
- Local user database
- Radius Servers (Max. 5)
- Tacacs+
- HTTP/SSL Server
- Storm Control in steps of 64Kbps rate
 - Support on Port and Port-Groups
 - Unknown Unicast
 - Multicast
 - Broadcast
- DHCP snooping & option 82
- ARP Inspection
- IP Source Guard
- SSH 2.0
- IP Filter for Web,SNMP,TELNET
- Automatic Traffic Control (ATC) for Broadcast and Multicast

Management Features

- Login Banner
- CLI via console port or Telnet/SSH
- WEB management
- SNMP v1, v2c,v3
 - MAC notifications Trap
- Firmware & Configuration:
 - Firmware upgrade via TFTP/FTP/Xmodem/HTTP
 - Multiple firmware and configuration files
 - Configuration file upload/download via TFTP/FTP/HTTP
 - Auto Firmware upgradeServer
- RMON (groups 1, 2, 3 and 9)
- BOOTP,DHCP Client
- SNTP
- LLDP (802.1ab) and LLDP-MED
- DNS
 - Domain name, Name Server
 - Static Host table
- Event/Error log/ System log
- Remote Syslog (Max 5 Server)
- SMTP Support for logs
- CPU and Memory Utilization Monitoring
- Ports statistics and chart
- Cable test
- Scheduled Reload
- IP Cluster with 36 units per cluster



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Technical Specifications:-

- Remote PING
- PPPOE intermediate-agent
- Sflow
- UPNP

Mechanical

- Dimensions (H x W x D) :
DG-FS4528 : 4.3 x 44 x 17.1 cm
DG-FS4552 : 4.3 x 44 x 23 cm
- LED Indicators: System: Power,
DIAG (Diagnostic),
Port: status (link, speed, and activity)
- AC Power Input: 00 to 240 V,
50-60 Hz, 1 A

- Weight :
DG-FS4528 : 2 kg
DG-FS4552 : 2.9 kg
- Fan-less Design

Environmental Specifications

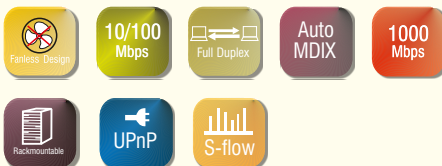
- Temperature :
Operating: 0°C to 45°C
(32°F to 113°F)
Storage: -40°C to 70°C
(-40°F to 158°F)
- Humidity: Operating: 10% to 90%
(non-condensing)

Electrical

- Power Consumption (Max.): 30Watts
- Maximum Current : 0.12 A @ 230 VAC

Warranty

- DIGICARE Limited Lifetime Warranty



Ordering Information:-

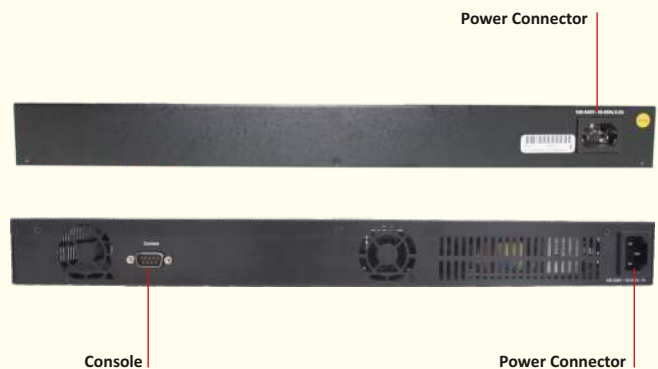
DG-FS4528: DIGISOL 24 Port 10/100Mbps Layer 2 Switch with 4 Gigabit Combo Ports

DG-FS4552: DIGISOL 48 Port 10/100Mbps Layer 2 Switch with 4 Gigabit Combo Ports

DG-SA1030: DIGISOL 1000Base-SX SFP Transceiver LC type
DG-SA1133: DIGISOL 1000Base-LX SFP Transceiver LC type

*Lifetime 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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