

Security Switch for Enterprises and Remote Branch Offices

- + 8 10/100/1000BASE-T Gigabit Ports
- + Fiber Support with 2 Combo 10/100/1000BASE-T/SFP
- + Integrated Malicious Traffic and Performance Degradation Prevention Functions
- + Quiet Fanless Ventilation Suitable for Desktop Installation

L2 Feature

- + 4K VLAN
- + Jumbo Frame support up to 10,240 Bytes
- + MLD snooping v1/v2
- + Loopback Detection

Security

- + 802.1x authentication
- + Web-Based Access Control (WAC)
- + MAC-Based Access Control (MAC)
- + IP-MAC-Port Binding
- + D-Link Safeguard engine
- + SSH/SSL
- + Microsoft NAP support
- + D-Link ZoneDefense*

Quality of Service

- + 8 priority queue
- + 802.1p priority queues/Multi-Layer CoS

Traffic Monitoring/Bandwidth Control

- + Traffic Segmentation
- + Bandwidth Control
- + Per flow Bandwidth Control
- + Broadcast Storm Control
- + Port Mirroring

* Function available in future via firmware upgrade

L2 Security Gigabit Switch



The DGS-3200-10 Security Gigabit Switch offers a new generation of intelligence and defense displayed through the delivery of its high performance, flexible expansion, and robust security. It executes firm network security and comes with ACL functionalities, which secure the internal IT network against external viruses from invading the LAN. Built on fan-less technology, this compact, 11-inch switch produces and emits less heat and noise than the standard switch – ideal for office environments or circumstances that require undisturbed silence.

Comprehensive Security

The DGS-3200-10 offers a complete list of endpoint security features to add confidence and assurance towards your network. It executes firm network security and comes with user-based identity control by implementing host-based 802.1x authentication/authorization, along with clientless Web-based Access Control (WAC) and MAC-based Access Control (MAC) for easy deployment. The incorporation of sophisticated ACL user-defined* functionality secures the internal IT network against viruses and worms from invading the LAN to provide better security. Innovative IP-MAC-Port Binding prevents ARP spoofing and man-in-middle attacks by disabling users from manually configuring their own IP or MAC address, and allowing administrators to assure that the IP information on the syslog server or firewall log is correct. Other security features like port security and traffic segmentation provide granular control to business environments, allowing administrators to enhance network security.

D-Link's joint security provides admission control and real-time defense through Microsoft's NAP (Network Access Protection) and D-Link's ZoneDefense* respectively. D-Link's built-in ZoneDefense technology allows businesses to integrate their switch with D-Link's NetDefend firewall to implement full coverage and a proactive security architecture.

IPv6 Technology

The DGS 3200-10 supports IPv6 multicast host, the latest in protocol technology, enabling maximum performance of hardware. Features such as MLD snooping enhance efficiency in selective distribution by forwarding multicast data to ports that want to receive data, rather than flooding all ports in a VLAN. Features such as ACL based on IPv6 flow label and traffic class, as well as QoS based on IPv6 help provide fast and efficient service.

Resilience/Performance Enhancement

To enhance network resilience, the DGS-3200-10 provides Spanning Tree protocols including 802.1D, 802.1w, and 802.1s for redundant bridge paths. 802.3ad Link Aggregation provides aggregated bandwidth between switches or servers to increase redundancy for higher availability. Quality of Service (QoS) incorporates multilayer function that supports 8 queues including 802.1p priority and packet classification based on TOS, DSCP, MAC, IP, VLAN ID and L4 TCP/UDP ports enabling Internet voice, video and streaming media applications to run smoothly. The DGS-3200-10 also provides a Safeguard Engine for network protection to increase switch's reliability, serviceability and availability.

Traffic Control

Network administrators can define throughput levels for each port to allocate its essential bandwidth. Broadcast storm control and flow-based bandwidth control can reduce the level of damage from virus attacks or P2P applications to the network.

Single IP Management

The DGS-3200-10 simplifies and speeds up your management tasks as multiple switches can be configured, monitored and maintained from any workstation running a web browser through one unique IP address. This virtual stack is managed as a single object, having all units maintained by one IP address.

Configuration/Management

- + Web-Based GUI
- + Command Line Interface (CLI)
- + Telnet Client/Server
- + RADIUS/TACACS+ Auth. For Mgmt Access
- + D-Link Single IP Management (SIM)
- + SNMP v1/v2c/v3
- + Dual Image/Configuration

Manageability

The DGS-3200-10 supports standard-based management protocols such as SNMP, RMON, Telnet, Console, web GUI and SSH/SSL security authentication.

Technical Specifications

Device Interfaces	+ 8 10/100/1000BASE-T Gigabit Ports + 2 Combo 10/100/1000BASE-T/SFP Ports + RS-232 DB-9 Console Port
Performance	+ MAC Address Table: 8K + Switch Capacity: DGS-3200-10: 20Gbps + Maximum Packet Forwarding Rate: DGS-3200-10: 14.88Mpps + Switching Method: Store and Forward + Packet Buffer Memory Size: 128Kbytes
Flow Control	+ 802.3x Standard in Full Duplex Mode + Back Pressure in Half Duplex Mode
Diagnostic LEDs	+ Per Device: Power, Console + Per 10/100/1000BASE-T Port: Link/Activity/Speed + Per SFP Slot: Link/Activity/Speed
Power	+ AC Input Power: 100-240 VAC, 50-60 Hz
Dimensions	+ 280 (W) x 180 (D) x 43 (H)
Ventilation	+ Fan-less
Temperature	+ Operating Temperature: 0-40C + Storage Temperature: -40-70C
Humidity	+ 5%-95% non-condensing
MTBF	+ 354,222 Hours
Power Consumption	+ 16Watts (Max.)
EMI	+ FCC, CE, VCCI Class A, C-Tick
Safety	+ UL, CB Report



SOFTWARE FUNCTIONS

Stackability

- + Virtual Stacking
- + Support D-Link Single IP Management
- + Up to 32 devices per virtual stack

L2 Features

- + MAC Address Table: 8K
- + Flow Control
 - 802.3x Flow Control
 - HOL Blocking Prevention
- + Jumbo Frame up to 10,240 Bytes
- + IGMP snooping
 - IGMP v1/v2 Snooping
 - Support 256 Groups
 - Host-based IGMP Snooping Fast Leave
- + MLD Snooping
 - MLD v1/v2 Snooping
 - Support 256 Groups
- + Spanning Tree
 - 802.1D STP
 - 802.1w RSTP
 - 802.1s MSTP
- + Per port / per device BPDU filtering
- + Loopback Detection
- + 802.3ad Link Aggregation
 - Max. 5 Groups per device/8 Ports per group
- + Port Mirroring
 - Support One-to-One
 - Many-to-One
 - Flow-based Mirroring

VLAN

- + VLAN Group
 - Max. 4K Static VLAN Groups
 - Max. 255 Dynamic VLAN Groups
- + 802.1Q Tagged VLAN
- + GVRP

QoS (Quality of Service)

- + 802.1p Class of Service
- + 8 queues
- + Queue Handling
 - Strict
 - Weighted Round Robin (WRR)
- + CoS Based on
 - Switch Port
 - VLAN ID
 - 802.1p Priority Queues
 - MAC Address
 - IPv4/IPv6 Address
 - DSCP
 - TCP/UDP Port
- + Bandwidth Control
 - Port-based (Ingress/Egress, min. granularity 512Kb/s)
 - Flow-based (Ingress, min. granularity 64Kb/s)

ACL (Access Control List)

- + Up to 200 access rules
- + ACL Based on
 - 802.1p Priority
 - VLAN ID

MAC Address

- IPv4/IPv6 Address
- DSCP
- Protocol Type
- TCP/UDP Port Number
- IPv6 Traffic Class
- IPv6 Flow Label
- + Time-based ACL
- + CPU Interface Filtering

Security

- + SSH v2
- + SSL v1/v2/v3
- + Port Security: up to 16 MAC address per port
- + Broadcast/Multicast/Unicast Storm Control
- + Traffic Segmentation
- + IP-MAC-Port Binding
 - Support 128 address binding entries per device
 - Support ARP / ACL Mode
- + D-Link Safeguard Engine
- + Microsoft® NAP
- + D-Link ZoneDefense*

AAA

- + 802.1X
 - Port-Based Access Control
 - Host-Based Access Control
 - Dynamic VLAN Assignment
- + Web-Based Access Control (WAC)
 - Port-Based Access Control
 - Host-Based Access Control
 - Dynamic VLAN Assignment
- + MAC-Based Access Control (MAC)
 - Port-Based Access Control
 - Host-Based Access Control
 - Dynamic VLAN Assignment
- + Guest VLAN
- + Authentication for Management Access Support
 - RADIUS/TACACS+
 - RADIUS Accounting

Management

- + Web-based GUI
- + Command Line Interface (CLI)
- + Telnet Server/Client
- + TFTP Client
- + ZModem
- + SNMP v1/v2c/v3
- + SNMP Trap
- + System Log
- + RMON v1
 - Support 1,2,3,9 Groups
- + BootP/DHCP Client
- + DHCP Auto-Configuration
- + DHCP Relay
- + DHCP Relay Option 82
- + Dual Image
- + Dual Configuration
- + CPU Monitoring
- + SNTp

MIB/IETF® Standard

- + RFC1213 MIB-II
- + RFC1493 Bridge MIB
- + RFC1907 SNMPv2 MIB
- + RFC1757, 2819 RMON MIB
- + RFC1643,2358,2665 Ether-like MIB
- + RFC2674 802.1p MIB
- + RFC2233, 2863 IF MIB
- + RFC2618 RADIUS Authentication Client MIB
- + RFC2925 Ping & Traceroute MIB
- + D-Link Private MIB
- + RFC768 UDP
- + RFC783 TFTP
- + RFC791 IP
- + RFC792 ICMP
- + RFC793 TCP
- + RFC826 ARP
- + RFC854 Telnet
- + RFC951, 1542 BootP
- + RFC2068 HTTP
- + RFC2138 RADIUS
- + RFC2139,2866 RADIUS Accounting
- + RFC1492 TACACS
- + RFC1157 SNMPv1
- + RFC1901, 1908 SNMPv2c
- + RFC2570,2575 SNMPv3



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