

L2 Gigabit Switches

With SNMP Management

- 24 or 48 Copper Gigabit Ports & 4 Combo SFP Slots
- Powerful Switching Capability
- Secure/Effective Standard-Based Management/Traffic Monitoring
- Advanced Enterprise Features & RADIUS/TACACS+ Support
- Redundant Power Support

FEATURES

Gigabit Connection to the Desktops

- 24 or 48 1000BASE-T Gigabit Ports Per Switch
- 4 Combo SFP for Server/Fiber Backbone Attachment

Redundancy

- Redundant Power Supply Support
- 802.1D Spanning Tree, 802.1w Rapid Spanning Tree, 802.1s Multiple Spanning Tree

Security

- 802.1Q VLAN, GVRP
- 802.1x Port-Based Access Control
- External RADIUS/TACACS+ Server Support
- SSL/SSH

Traffic Monitoring/Bandwidth Control

- 802.3ad Link Aggregation (Port Trunks)
- GUI Traffic Monitoring
- RMON Support
- Port Mirroring
- Per-Port Bandwidth/Broadcast Storm Control ¹

Configuration/Management

- Web-Based
- Command Line Interface (CLI)
- SNMP v.1, v.2c, v3 Standard
- D-View SNMP Network Management Module Provided
- Telnet Server

¹ Bandwidth control function available on 48-port DGS-3048 switch only.
Bandwidth control for 24-port DGS-3024 switch available in future firmware upgrade.

The D-Link DGS-3000 series Layer 2 Gigabit switches are an entry-level SNMP management solution for departmental networks. With high densities of copper Gigabit ports and multiple combo SFP, these stand-alone switches provide users with gigabit-to-the-desktop connections with secure fiber access to the servers and network backbone. Powerful and versatile, these switches eliminate bottlenecks while giving users the capability to fine-tune performance. 1U height and standard rack-mount size is especially suitable for departmental environment, providing users the best performance/price ratio.

Network Management. The DGS-3000 series addresses today's diverse business and IT requirements through robust support of standards based network management protocols (SNMP/RMON/Bootp/Telnet/Web) and port mirroring. By supporting standards-based network management protocols, these devices can be easily integrated with most third-party network management products. Each switch provides full duplex forwarding, a large MAC address search table, and the ability to classify and mark traffic based on 802.1p into priority queues.

Advanced Features. The DGS-3000 series brings enterprise functions to a new level of affordability without compromising advanced features, such as QoS, Multicast, VLANs, Port Trunking, Port Mirroring, Spanning Tree, Security, and Network Management. These features facilitate the deployment of applications across an enterprise, including: VoIP, streaming media, and multicast content delivery (IP video, software deployment, etc.). Security features include 802.1x port based access control, and support for RADIUS and TACACS+ servers.

Port Trunk & Redundancy Support. The DGS-3000 series can be used as a cost-effective Gigabit to the desktop solution or high performance backbone aggregation devices. With 802.3ad Link Aggregation support, multiple ports can be combined into a multi-link for higher bandwidth connections to servers or the network backbone. Each switch can be connected to redundant power supply to maximize network uptime. In case of a power failure, the external power unit will automatically provide the required power to ensure continuous operation.

Investment Protection. With 4 SFP modules, the DGS-3000 series can easily adapt to changes in customer media requirements without the need to perform an expensive upgrade. Users can migrate to more advanced solutions in the future, while still protecting a portion of their original investment.

DGS-3024

DGS-3048



DGS-3048



RS-232 Console Port

2/

Max. Jumbo Frame Size

9,216 Bytes

Power, Console, RPS (Per Device)

✓

Safety

CUL, CB

Software Functions

VLAN

- IEEE 802.1Q Tagged VLAN
- GVRP
- Max. number of VLANs: total 255 VLANs

QoS (Quality of Service)

- 802.1p Priority Queues
- CoS based on switch port
- Max. No. of queues per port: 4 for DGS-3024, 8 for DGS-3048

Security

- Port security (up to 16 MACs per port)
- 802.1x port-based access control
- External RADIUS, TACACS+ server support
- Broadcast storm control: per port granularity 10 packets per second for DGS-3024, 1 Kbits per second for DGS-3048
- SSL
- SSH

Bandwidth Control

Per port granularity 64 Kbits per second ¹

IGMP Snooping

- Max. No. of multicast groups: 64 for DGS-3024, 1K for DGS-3048
- Multicast traffic modes: flooding, filtering

Port Mirroring

- One-to-one
- Many-to-one ²

Spanning Tree

- 802.1D Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree

Port Trunk

- Standard: 802.3ad Link Aggregation
- Max. No. of trunk groups: 4 for DGS-3024, 8 for DGS-3048
- Max. No. of ports per trunk: 8
- Operation mode: load sharing

Management Support

- SNMP v.1, v.2c, v.3
- Web-based management
- CLI (command line interface)
- RMON monitoring
- SNTP
- SYSLOG
- Web GUI traffic monitoring
- DHCP/Bootp client ²
- SNMP trap on MAC notification ²
- Telnet server

MIB

- RFC 1213 MIB-II
- RFC 1493 Bridge MIB
- RFC 1907 SNMP v.2 MIB
- RFC 2819 RMON MIB (previous 1757)
- RFC 2665 Ether-like MIB (previous 1643, 2358) ³
- RFC 2674 802.1p MIB
- RFC 2233 IF MIB*
- RFC 2618 RADIUS Authentication Client MIB
- RFC 2620 RADIUS Accounting Client MIB
- Private MIB

RMON Groups

1, 2, 3, 9 (Alarm, Statistics, History, Event)

Firmware Upgrade

TFTP

Optional SFP Transceivers

- DEM-310GT** SFP transceiver for 1000BASE-LX, single-mode fiber, max. distance 10 km, 3.3V
- DEM-311GT** SFP transceiver for 1000BASE-SX, multi-mode fiber, max. distance 550 m, 3.3V
- DEM-312GT2** SFP transceiver for 1000BASE-SX, multi-mode fiber, max. distance 2 km, 3.3V
- DEM-314GT** SFP transceiver for 1000BASE-LHX, single-mode fiber, max. distance 50 km, 3.3V
- DEM-315GT** SFP transceiver for 1000BASE-LX, single-mode fiber, max. distance 80 km, 3.3V
- DEM-330T** SFP transceiver for 1000BASE-LX, single-mode fiber, max. 10 km, 3.3V, WDM (Tx: 1550 nm, Rx: 1310 nm)
- DEM-330R** SFP transceiver for 1000BASE-LX, single-mode fiber, max. 10 km, 3.3V, WDM (Tx: 1310 nm, Rx: 1550 nm)
- DEM-331T** SFP transceiver for 1000BASE-LX, single-mode fiber, max. 40 km, 3.3V, WDM (Tx: 1550 nm, Rx: 1310 nm)
- DEM-331R** SFP transceiver for 1000BASE-LX, single-mode fiber, max. 40 km, 3.3V, WDM (Tx: 1310 nm, Rx: 1550 nm)

Optional Redundant Power Supply

- DPS-300** 90-watt redundant power supply
- DPS-500** 140-watt redundant power supply

Management Software

- DS-510** D-View 5.1 SNMP Network Management Program

Optional Management Software

- DS-510S** D-View 5.1 SNMP Network Management Program (standard version)
- DS-510P** D-View 5.1 SNMP Network Management Program

¹ Bandwidth control function available on 48-port DGS-3048 switch only.

² Bandwidth control for 24-port DGS-3024 switch available in future firmware upgrade.

³ For DGS-3048 only.

* Function available in future firmware upgrade.

D-Link Worldwide Offices

U.S.A.
Canada
Europe (U. K.)
Germany
France
Netherlands
Belgium
Italy
Sweden
Denmark
Norway
Finland
Spain
Portugal
Czech Republic
Switzerland
Greece

TEL: 1-800-326-1688
TEL: 1-905-8295033
TEL: 44-20-8731-5555
TEL: 49-6196-77990
TEL: 33-1-30238688
TEL: 31-10-282-1445
TEL: 32(0)2-517-7111
TEL: 39-02-2900-0676
TEL: 46-(0)8564-61900
TEL: 45-43-969040
TEL: 47-99-300-100
TEL: 358-9-2707 5080
TEL: 34-93-4090770
TEL: 351-21-8688493
TEL: 420-(603)-276-589
TEL: 41-(0)-1-832-11-00
TEL: 30-210-9914 512

FAX: 1-866-743-4905
FAX: 1-905-8295223
FAX: 44-20-8731-5511
FAX: 49-6196-7799300
FAX: 33-1-30238689
FAX: 31-10-282-1331
FAX: 32(0)2-517-6500
FAX: 39-02-2900-1723
FAX: 46-(0)8564-61901
FAX: 45-43-424347
FAX: 47-22-309580
FAX: 358-9-2707-5081
FAX: 34-93-4910795

FAX: 41(0)-1-832-11-01
FAX: 30-210-9916902

Luxemburg
Poland
Hungary
Singapore
Australia
India
Middle East (Dubai)
Turkey
Egypt
Israel
LatinAmerica
Brazil
South Africa
Russia
Japan
China
Taiwan
Headquarters

TEL: 32-(0)2-517-7111
TEL: 48-(0)-22-583-92-75
TEL: 36-(0)-1-461-30-00
TEL: 65-6774-6233
TEL: 61-2-8899-1800
TEL: 91-022-26526696
TEL: 971-4-3916480
TEL: 90-212-289-56-59
TEL: 202-414-4295
TEL: 972-9-9715700
TEL: 56-2-232-3185
TEL: 55-11-218-59300
TEL: 27-12-665-2165
TEL: 7-495-744-0099
TEL: 81-3-5781-0963
TEL: 86-10-58635800
TEL: 886-2-6600-0123
TEL: 886-2-6600-0123

FAX: 32-(0)2-517-6500
FAX: 48-(0)-22-583-92-76
FAX: 36-(0)-1-461-30-09
FAX: 65-6774-6322
FAX: 61-2-8899-1868
FAX: 91-022-26528914
FAX: 971-4-3908881
FAX: 90-212-289-76-06
FAX: 202-415-6704
FAX: 972-9-9715601
FAX: 56-2-232-0923
FAX: 55-11-218-59322
FAX: 27-12-665-2186
FAX: 7-495-744-0099 #350
FAX: 81-3-5781-0965
FAX: 86-10-58635799
FAX: 886-2-6600-8168
FAX: 886-2-6600-9898