

D-Link DGS-3308FG Managed Layer 3 Switch



- **High Performance Hardware Based Layer 3 IP Routing**
- **Wire Speed Packet Forwarding**
- **Advanced Multicast Support**
- **Standards Based Features**
- **Enterprise Network Management Features**

Managed Six (6) Port 1000BASE-SX Layer 3 Switch with Two (2) GBIC Based Ports

The D-Link DGS-3308FG is a high performance Managed Layer 3 switch with six (6) 1000BASE-SX ports with two (2) optional GBIC ports. With a 16Gbps capacity switch fabric and 12Mpps IP forwarding capability, the DGS-3308FG is ideal for even the most demanding small to medium sized fiber backbone Gigabit applications.

The DGS-3308FG supports the IEEE standards for 802.1q (VLAN), 802.1p (CoS), RIPv1/v2 IP routing, IGMP, DVMRP and PIM-Dense Mode for seamless integration and maximum interoperability into multi-vendor environments

The D-Link DGS-3308FG also supports advanced Enterprise network manage-

ment functions: telnet, SNMP, RMON (Alarms, Statistics, History and Events, Port Mirroring, BOOTP, DHCP Relay, DHCP Client and multi-level user access).

With intelligent traffic management, this switch also allows you to specify port bandwidth and priority queues for streaming media, Voice over IP and other high priority classes of traffic.

Port-based VLANs allow you to set the broadcast domains, segment network traffic and improve performance and manageability. The D-Link DGS-3308FG's Web Management Tools allow the user to manage the device from a Web browser anywhere on the network.

The D-Link DGS-3308FG Includes

Layer 3 Switch

Power Cable

Console Cable

CD-ROM with Documentation

Technical Specifications

General Standards

- IEEE802.3z 1000BASE-SX Gigabit Ethernet (fiber)
- IEEE802.3z 1000BASE-LX Gigabit Ethernet (fiber)
- ANSI/IEEE 802.3 Auto-negotiation
- IEEE 802.3x Flow Control
- IEEE 802.1p Priority Queues
- IEEE 802.1Q VLAN
- IEEE 802.1D Spanning Tree

Protocol

CSMA/CD

Data Transfer Rates

- *Gigabit Ethernet*: 2000Mbps (full duplex)

Topology

Star

Network Cables

- *1000BASE-SX*: 50/125-micron multi-mode fiber-optics (550 m max.)
- *62.5/125-micron* multi-mode fiber-optics (275 m max.)
- *1000BASE-LX*: 9-micron single-mode fiber-optics (5 km max.)

Full/half Duplex

- Full duplex only for Gigabit speed

Performance & Management Switch Fabric

16Gbps

Packet Forwarding Rate

12Mpps Layer 3 IP forwarding

Switching Method

Store-and-forward

Routing Protocols

RIP-1& RIP-2

MAC Address Table

8K entries per device

IP Address Routing Table

2K entries per device

RAM Buffer

16MB per device (excluding optional modules)

IEEE 802.1p Priority Queues

4 queues

RMON Groups

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

Multicast Support

- IGMPv2
- DVMRP
- PIM-Dense Mode

VLAN Support

- Port Based VLAN
- 802.1q tagging

MIBs

- MIB-II (RFC 1213)
- Bridge MIBs (RFC 1493)
- RMON MIBs (RFC 1757)
- VLAN MIBs (RFC 2674)
- IF MIBs (RFC 2233)
- IF-Forward MIBs (RFC 2096)
- RIP-2 MIBs (RFC 1724)
- IGMP MIBs
- ID_REC MIBs
- IPMROUTE MIBs
- PIM MIBs
- DVMRP MIBs

IP Number Self-identification

Through DHCP client, BOOTP client

Console Port

DB-9 RS-232

Physical & Environmental Ventilation

(2) 40 x 40 x 10 mm DC fans

Power Consumption

35 watts max.

Weight

2.8kg (6.2 lb.)

Dimensions

441 x 367 x 44 mm (17.4 x 14.5 x 1.7 inches)
Standard 19-inch rack-mount width, 1 U height

Power Supply

100 - 240VAC 50/60Hz internal universal power supply

Operating temperature

0° - 50° C (32° - 122° F)

Storage temperature

-25° - 55° C (-13° - 131° F)

Emission

- FCC Class A/ICES-003 (Canada)
- CE Class A (EN55022, EN50082-1)
- C-Tick (AS/NZS 3548)
- VCCI Class A ITE - BSMI (CNS 13438)

Safety

- IEC 950 (CB)
- UL 1950 (CB)
- TUV (EN60950)

Ordering Information

1000Base-SX Managed
Layer 3 Switch

**DGS-3308FG Six (6) 1000Base-SX
Ports with Two (2) Optional GBIC Ports**

Optional Modules:

- DGS-701 1000Base-SX GBIC
- DGS-702 1000Base-LX GBIC



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