DGS-3024

Layer 2 Switch
Managed 24-Port 10/100/1000BASE-T With 4 Combo SFP Expansion Slots

FEATURES

High-Performance Wire-Speed Architecture:
- 48Gbps Switching Capacity
- 24 1000Mbps ports
- 4 Combo SFP Ports
- IEEE 802.3x Flow Control compliant for all 24 1000BaseT ports
- Supports Auto-negotiation for Full-Duplex/ flow control operations
- 9K Jumbo Frame Support

Standards-based network Management:
- Telnet/Console/CLI
- SNMP v1/2/3
- RMON (4 groups)
- Web
- Port Mirroring
- SSH/SSL/TACACS+[1]

Advanced Standards-based Enterprise Features:
- 802.1P (4 queues)
- 802.1Q VLANs (up to 255)
- 802.3ad Link Aggregation
- 802.1x Authentication

Support Information:
- Limited Lifetime Warranty
- Free Technical Support

Overview

The DGS-3024 is a manageable Layer 2 switch that provides 24 1000BASE-T Gigabit Ethernet ports with 4 Mini-GBIC (SFP) combo ports. Designed for the departmental and enterprise connection, it is an all-gigabit-port switch for gigabit-to-the-desktop connections. Powerful and versatile, it eliminates network 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. Clear, at-a-glance per-device/per-port LED indicators help users to easily understand and control network status.

High Performance Wire-Speed Architecture

The DGS-3024 supports full duplex forwarding, 8k MAC addresses and the ability to classify and mark traffic based on 802.1p into (4) priority queues. The DGS-3024 can be used as a cost-effective Gigabit to the desktop solution or a high performance backbone aggregation device.

Network Management

D-Link's DGS-3024 addresses today's diverse business and IT requirements through its robust support of standards based network management protocols (SNMP/RMON/BOOTP/Telnet/Web) and port mirroring. By supporting standards-based network management protocols, the DGS-3024 can be easily integrated with most third-party network management products.

Advanced Enterprise Features

The DGS-3024 brings advanced Enterprise functions to a new level of affordability without compromising advanced features including: 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). The DGS-3024 provides advanced security features such as 802.1x port based access control, and support for RADIUS and TACACS+ servers.

Investment Protection

With support for up to (4) SFP modules, the DGS-3024 can easily adapt to changes in customer media requirements without the need to perform an expensive "forklift" upgrade. By supporting SFP/mini GBIC modules, customers can migrate to more advanced solutions in the future, while still protecting a portion of their original investment.

[1]   Avaible through free firmware upgrade in Q2/2005

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Technical Specifications

DGS-3024	Managed 24-port 10/100/1000 BASE-T with 4 Combo SFP Expansion Slots
Mac Address Table Size	8K
Switch Fabric	48Gbps
Transmission Method	Store-and-Forward
VLANs	Supports up to 255 static 64 dynamic
QoS	4 Priority queues
Classification QoS	802.1p Port Based

Interface Options

RJ-45	10BASE-T, 100BASE-TX & 1000BASE-T
LC/SFP	With optional Standard Small Form-Factor Pluggable (SFP) Gigabit Transceivers

Network Management

In Band & Out of Band	Telnet, CLI/Console, RMON, Web-based HTTP, SNMP v1/2/3, Syslog, Port Mirroring, TFTP, BootP client, DHCP client

Network Protocols and Standards

IEEE	802.3 Ethernet, 802.3u Fast Ethernet, 802.3ab Gigabit Ethernet, 802.3z Gigabit Ethernet, 802.1d Spanning tree, 802.1p priority tags (4 queues), 802.1q VLANs (up to 255), 802.1x Port-based Authentication, 802.3ad link aggregation, DSCP support, GVRP support, broadcast storm control

Safety Agency Certifications and Environmental

Safety	CSA International

Physical and Environmental

Temperature	Operating: 0°- 40° C (32° - 104° F) Storage: -10° - 70° C (14° - 158° F)
Humidity	Operating: 10% - 90% RH, Non-Condensing Storage: 0% - 95% RH, Non-Condensing

Physical Specifications

Dimensions (W x L x H)	12.17 x 17.36 x 1.73 in (30.91 x 44.09 x 4.39)
Weight	8.38 lbs (3.8kg)

Warranty and Support Information

Warranty	Limited Lifetime Warranty
Support	Free 24/7 Technical Support

Ordering Information

Part Number	Description
DGS-3024	Managed 24-Port 10/100/1000BASE-T With 4 Combo SFP Expansion Slots
DEM-310GT	1000BASE-LX Mini Gigabit Interface Converter (Up to 10km)
DEM-311GT	1000BASE-SX Mini Gigabit Interface Converter (Up to 550km)
DEM-312GT2	1000BASE-SX+ Mini Gigabit Interface Converter (Up to 2km)
DEM-314GT	1000BASE-LH Mini Gigabit Interface Converter (Up to 50km)
DEM-315GT	1000BASE-ZX Mini Gigabit Interface Converter (Up to 80km)