



High-performance Wire-speed Architecture

- + 32Gbps Switching Capacity
- + Non-blocking Architecture
- + 8k MAC Address Table
- + 802.1p Priority Queuing
- + Jumbo Frame Support of up to 9600Bytes

Operational Simplicity

- + True Plug & Play
- + Auto-Sensing
- + Auto Cable Detection
- + Automatic Cable Diagnostic to Help Detect Cable Problems
- + Auto-Configuration
- + Clear At A Glance per Port LED Indicators
- + Rack Mountable

Investment Protection

- + Support for Industry Standards
- + Limited Lifetime Warranty

Layer 2 Unmanaged 16-Port 10/100/1000Mbps Switch

High Performance

D-Link's Layer 2 Unmanaged 16-Port 10/100/1000Mbps Switch (DGS-1016D) delivers power, performance, and reliability in one cost-effective, space-saving design. Increase the speed of your network server and backbone connections, making Gigabit to the desktop a reality. Users in the office or workgroup can now transfer large bandwidth-intensive files, photos, and videos up to 10 times faster than 10/100Mbps networks¹. Transfer graphics, CGI, CAD, or multimedia files across the network without hesitation. The versatile and compact 1RU height design of the DGS-1016D enables the device to be rack-mounted in a standard 19-inch rack while conserving valuable rack space.

Power-Packed

Featuring a non-blocking switching architecture that filters and forwards packets at full wire-speed, the DGS-1016D extinguishes lag as a thing of the past. An 8k MAC address table provides scalability for even the largest networks. Address learning and aging, 802.3x flow control for full-duplex mode, and back pressure flow control for half-duplex mode alleviates traffic congestion and ensures reliable data transmission. Designed to adhere to industry standards, the DGS-1016D is compatible with virtually all 10, 100, and 1000Mbps Ethernet devices and other vendor equipment. The DGS-1016D protects your existing network investments while providing you with a straightforward migration path to faster Gigabit speeds.

Easy Installation and Maintenance

The auto features of this switch make installation Plug-and-Play and hassle-free. No configuration is required. Auto-MDI/MDI-X crossover on all ports eliminates the need for crossover cables for connection to another switch or hub. Auto-negotiation on each port senses the link speed of a network device (10, 100, or 1000Mbps) and intelligently adjusts for compatibility and optimal performance. It also features diagnostic LEDs which display status and activity, allowing you to quickly detect and correct problems on the network. Every port also supports a cable diagnostic feature that helps to detect cable related problems.

802.1p Quality of Service

The DGS-1016D supports 802.1p Quality of Service (QoS). When the switch receives a frame tagged with 802.1p priority, it automatically places it into one of 4 priority queues. Priority queuing is useful in implementation where time sensitive data such as voice and video, is being streamed across the network.



Layer 2 Unmanaged 16-Port 10/100/1000Mbps Switch

Technical Specifications

Product Specifications

MAC Address Table Size	8k
Switch Fabric	32Gbps Forwarding Capacity
Transmission Method	Store-and-Forward
Diagnostic LEDs	Power
	Activity/Link
Packet Buffer Memory	340Kbytes Buffer Memory per Device
QoS	802.1p (4 Queues)

Interface Options

RJ-45	10BASE-T, 100BASE-TX, AND 1000BASE-T
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Network Protocols and Standards

IEEE	802.3 Ethernet, 802.3u Fast Ethernet, 802.3x Flow Control, 802.3ab Gigabit Ethernet, 802.1p QoS
Electrical & Emissions Summary	CE Mark A, FCC Class A
Power Supply	100-240VAC, 50/60Hz Internal Universal Power

Safety and Environmental

Safety	CSA + NRTL/C
Temperature	Operating: 32° to 104°F (0° to 40°C)
	Storage: 14° to 131°F (-10° to 55°C)
Humidity	Operating: 5% ~ 95% RH (Non-condensing)
Environmental	RoHS compliant

Physical Specifications

Dimensions (W x D x H)	Item: 11.0" x 7.1" x 1.7"
	Packaging: 14.1" x 10.1" x 6.2"
Weight	3.86lbs (1.75Kg)

Warranty

Warranty	Limited Lifetime ²
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Ordering Information

<u>Part Number</u>	<u>Description</u>
DGS-1016D	Unmanaged Layer 2 Switch with 16 10/100/1000BASE-T Ports

¹ Additional devices must also be 1000Mbps compatible to utilize Gigabit speeds.
² Limited lifetime warranty available only in the USA and Canada.