D-Link
Building Networks for People

Product Highlights

Gigabit High-Speed Networking

Gigabit ports allow you to connect up to 16 devices for fast file transfers and smooth media streaming

Versatile Mounting Options

Compact and lightweight design supports desktop or wall mount placement

Energy Efficient

Uses 802.3az Energy-Efficient Ethernet to reduce power usage automatically without sacrificing performance

DGS-1016S

16-Port Gigabit Desktop Switch

Features

Fast Connectivity

- 16 x Gigabit LAN ports for high-speed wired connections
- Plug-and-play installation for convenience

Energy-Efficient and Eco-Friendly

- Reduces power to a port when there is no traffic
- Optimizes power usage for a port for the length of cable connected to it
- Energy-efficient design reduces heat generated and allows the switch to run silently

Advanced Features

- IEEE 802.1p QoS prioritizes traffic by data type to provide optimal performance

The DGS-1016S 16-Port Gigabit Desktop Switch is for home and Small-Medium Business (SMB) users. This desktop switch is built with a compact and sturdy metal design that makes use of power-saving technology, providing energy savings, reduced heat, and a longer product life without sacrificing performance or functionality. The DGS-1016S provides 16 Gigabit ports for an easy expansion or a quick Gigabit connectivity upgrade to your network.

Effortless Gigabit Networking

With data transfer speeds of up to 2000 Mbps on Gigabit Ethernet, the D-Link DGS-1016S Switch is ideal for transferring files quickly. Easy-access front Ethernet ports with two color LED indicators per port allows you to quickly distinguish link status and speed.

Advanced Features for Better Optimization

The DGS-1016S 16-Port Gigabit Desktop Switch features 802.1p Quality of Service (QoS), which organizes and prioritizes time-sensitive and important data for efficient delivery, allowing for smooth media streaming and voice over IP (VoIP) calling.

Environmentally Friendly

The DGS-1016S supports IEEE 802.3az Energy-Efficient Ethernet, which saves energy and reduces heat automatically without sacrificing performance or functionality. The switches can detect when a connected computer is shut down or when there is no Ethernet traffic and can automatically reduce the power used for that port, cutting power usage substantially. In addition, the switch optimizes power usage for each port for the length of cable connected to it, using only as much power as is required. Both of these features work together to help you save power automatically.

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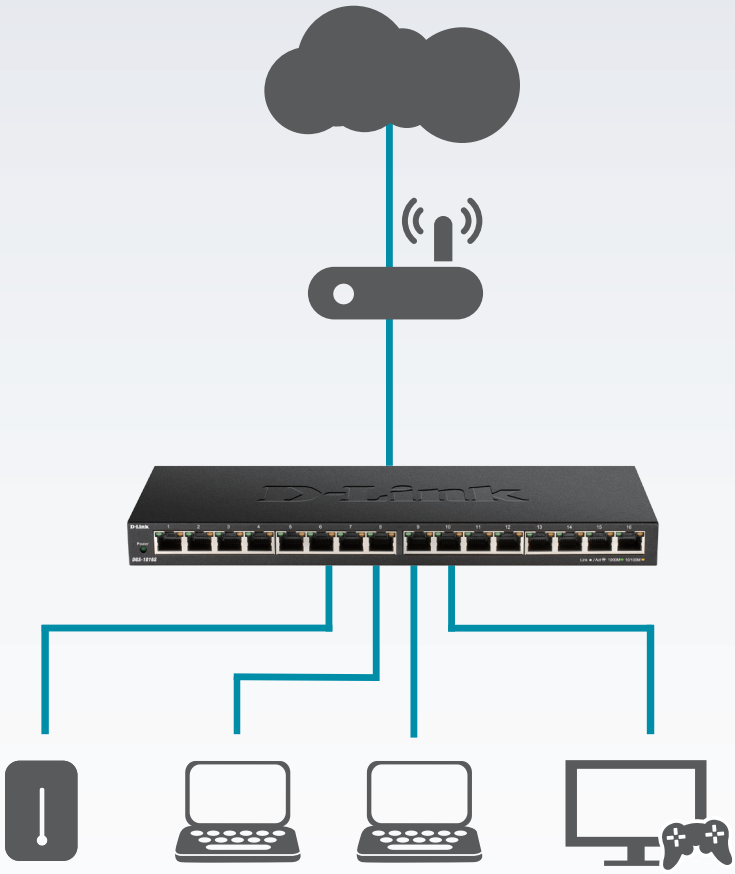
DGS-1016S 16-Port Gigabit Desktop Switch

Home and Small/Medium Office Setup



Technical Specifications

General

Device Interfaces	• 16 x 10/100/1000 Mbps LAN ports	
Standards	• IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T	• IEEE 802.3x Flow Control • IEEE 802.1p QoS • IEEE 802.3az Energy-Efficient Ethernet (EEE)

Functionality

Switching Capacity	• 32 Gbps	
Advanced Features	• Auto-MDI/MDIX crossover for all ports • Secure store-and-forward switching scheme • Full/half-duplex for Ethernet/Fast Ethernet speeds • Supports 9,216 byte jumbo frames	• Back pressure at half-duplex operation • Wire-speed reception and transmission • Auto-negotiation for each port • Quality of Service (8 queues, strict mode)

Data Transfer Rates	• Ethernet:
	  • 10 Mbps (half-duplex)
	  • 20 Mbps (full-duplex)
	• Fast Ethernet:
	  • 100 Mbps (half-duplex)
	  • 200 Mbps (full-duplex)
		• Gigabit Ethernet
		  • 2000 Mbps (full-duplex)

Transmission Method	• Store-and-forward	
MAC Address Table Size	• 8K entries	
Packet Filtering/Forwarding Rates	• Ethernet: 14,880 pps per port • Fast Ethernet: 148,800 pps per port	• Gigabit Ethernet: 1,488,000 pps per port
RAM Buffer	• 512 KB per device	

DGS-1016S 16-Port Gigabit Desktop Switch

Physical		
LED Indicators	• Per port: Link/Activity/Speed • Per device: Power	
Media Interface Exchange	• Auto-MDI/MDIX adjustment for all ports	
Dimensions	• 280 x 110 x 25 mm (11.02 x 4.33 x 0.98 in)	
Weight	• 0.77 kg (1.7 lbs)	
Power Input	• 12 V / 1 A	
Power Consumption	• Standby: 3.37 W	• Maximum: 8.89 W
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	• Storage: -40 to 70 °C (-40 to 158 °F)
Humidity	• Operating: 10% to 90% non-condensing	• Storage: 5% to 95% non-condensing
MTBF	• 564,658 hours	
Maximum Heat Dissipation	• 30.32 BTU/h	
Emissions (EMI)	• CE Class A • FCC Class A	• ICES 003 • RCM
Safety	• LVD	

Order Information	
Part Number	*Description*
DGS-1016S	16-Port Gigabit Desktop Switch

Updated 2020/06/11

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