D-Link®
Building Networks for People

Product Highlights
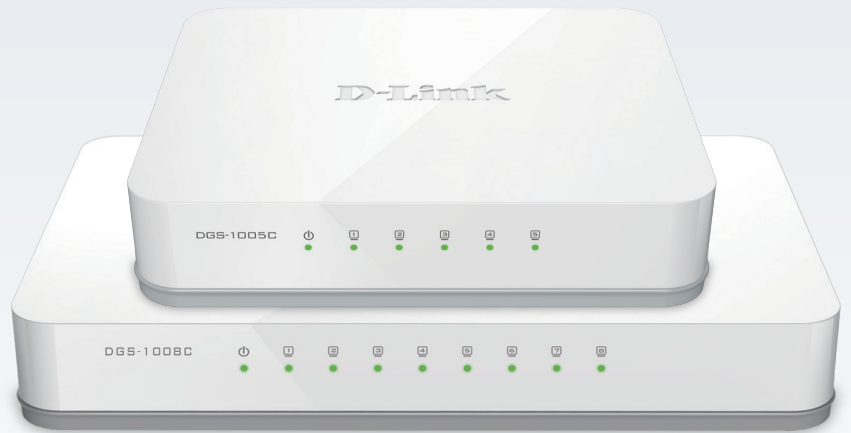
Gigabit High-Speed Networking
Gigabit ports allow you to connect up to five or eight devices for fast file transfers and smooth media streaming

Intelligent Data Streaming
QoS support enables uninterrupted VoIP calls, smooth streaming video, and quick file transfers over your network

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

DGS-1005C/1008C
5/8-Port 10/100/1000 Mbps Unmanaged Switch

Features

Gigabit Connectivity
- Five (DGS-1005C) or eight (DGS-1008C) Gigabit LAN ports for high-speed wired connections
- Cable Diagnostics function notifies users of cable conditions through port LEDs
- 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 switch to run silently

The DGS-1005C and DGS-1008C 10/100/1000 Mbps Unmanaged Switches are economical, plug-and-play networking switch solutions for SOHO and small and medium businesses wanting to benefit from the increased bandwidth of Gigabit Ethernet. They provide five or eight 10/100/1000 Mbps ports that enable you to easily expand your network and provide a quick way to upgrade your network to fast connectivity.

Upgrade to Gigabit Networking

With data transfer speeds of up to 2000 Mbps at full duplex, these switches are ideal for quick file transfers, online gaming and smooth streaming media. They feature easy-to-access Ethernet ports with LED indicators per port to easily distinguish link status. Auto MDI/MDIX crossover makes connection a cinch; just plug in your cables and you're ready to go.
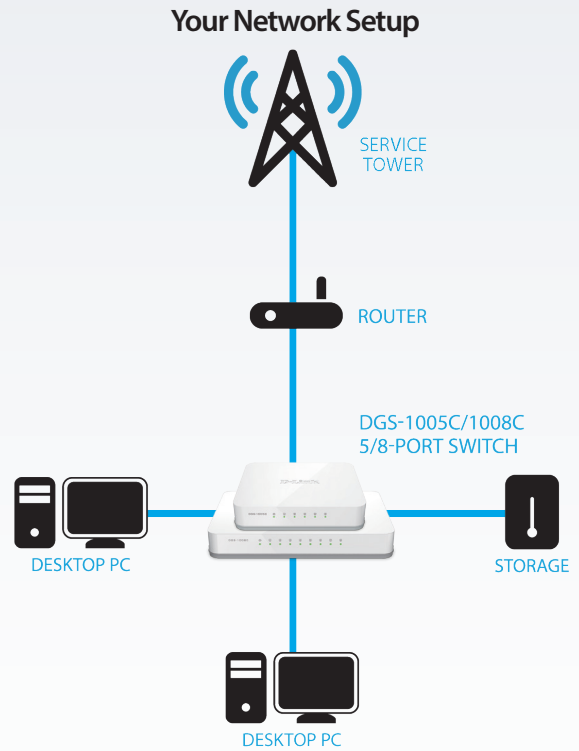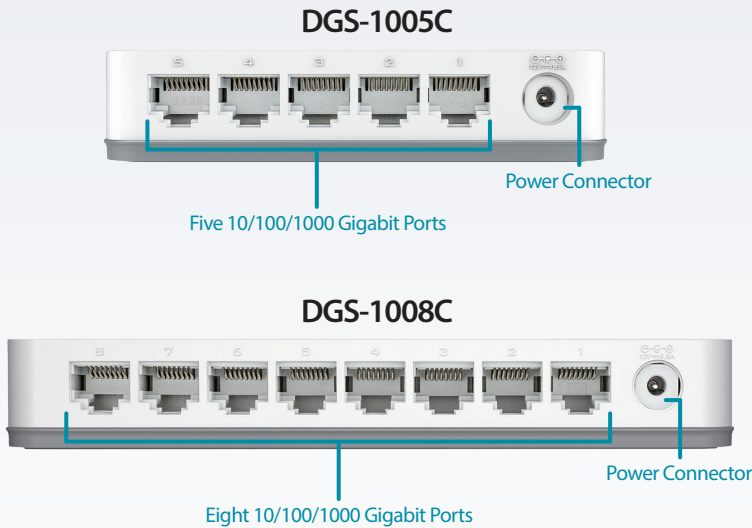
Conserve Energy

The DGS-1005C and DGS-1008C implement 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.

Reliable Plug and Play Installation

The DGS-1005C and DGS-1008C are Plug-and-Play devices that require no configuration, so setup is simple and hassle-free, and you can easily connect multiple computers, share files, music, and video across your home or small office network, or even create a multiplayer gaming environment. 802.3x flow control on each port minimizes dropped packets when the port's receiving buffer is full, giving you a more reliable connection for all of your connected devices.

Smooth Streaming

These switches support QoS, which prioritizes network traffic so that time-sensitive data is delivered efficiently, even during bursts of high data traffic. This helps ensure an optimal experience for streaming media and VoIP calls.

DGS-1005C

Power Connector

Five 10/100/1000 Gigabit Ports

DGS-1008C

Power Connector

Eight 10/100/1000 Gigabit Ports

Your Network Setup

SERVICE TOWER

ROUTER

DGS-1005C/1008C 5/8-PORT SWITCH

DESKTOP PC

STORAGE

DESKTOP PC

Technical Specifications

General	DGS-1005C	DGS-1008C
Device Interfaces	• Five 10/100/1000 Mbps LAN ports	• Eight 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)	• 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	**DGS-1005C**	**DGS-1008C**
Switching Capacity	• 10 Gbps switching fabric	• 16 Gbps switching fabric
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 • Store and-Forward switching method • Auto-negotiation for each port • Cable diagnostics • QoS (4 queues, strict mode)	• 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 • Store and-Forward switching method • Auto-negotiation for each port • Cable diagnostics • QoS (4 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)
		• 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	• Store-and-forward
MAC Address Table Size	• 2,000	• 8,000
Packet Filtering/Forwarding Rates	• Ethernet: 14,880 pps per port • Fast Ethernet: 148,800 pps per port • Gigabit: 1,488,000 pps per port	• Ethernet: 14,880 pps per port • Fast Ethernet: 148,800 pps per port • Gigabit: 1,488,000 pps per port
RAM Buffer	• 256 KB per device	• 256 KB per device
Physical	**DGS-1005C**	**DGS-1008C**
LED Indicators	• Per port: Link/Activity/Speed • Per device: Power	• Per port: Link/Activity/Speed • Per device: Power
Media Interface Exchange	• Auto MDI/MDIX adjustment for all ports	• Auto MDI/MDIX adjustment for all ports
Dimensions	• 106.0 x 87.0 x 21.45 mm (4.17 x 3.43 x 0.84 inches)	• 151.2 x 96.0 x 22.0 mm (5.95 x 3.78 x 0.87 inches)
Weight	• 108 grams (3.81 ounces)	• 168 grams (5.93 ounces)
Power	• DC 12 V / 0.5 A • DC jack: Located on back	• DC 12 V / 0.5 A • DC jack: Located on back
Power Consumption	• Power On (Standby): 0.7 watts • Maximum: 3 watts	• Power On (Standby): 1.05 watts • Maximum: 4 watts
Temperature	• Operating: 0 to 40 ℃ (32 to 104 °F) • Storage: -40 to 70 ℃ (-40 to 158 °F)	• Operating: 0 to 40 ℃ (32 to 104 °F) • Storage: -40 to 70 ℃ (-40 to 158 °F)
Humidity	• Operating: 10% to 90% non-condensing • Storage: 5% to 95% non-condensing	• Operating: 10% to 90% non-condensing • Storage: 5% to 95% non-condensing
MTBF	• 1,982,497 hours	• 1,866,467 hours
Maximum Heat Dissipation	• 13.65 BTU/h	• 18.20 BTU/h
Certifications	• CE Class B • CE (LVD 2006/95/EC)	• CE Class B • CE (LVD 2006/95/EC)

Order Information

Part Number	Description
Part Number	*Description*
DGS-1005C	5-Port 10/100/1000 Mbps Unmanaged Switch
DGS-1008C	8-Port 10/100/1000 Mbps Unmanaged Switch

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