D-Link
Building Networks for People

Product Highlights

Gigabit High-Speed Networking

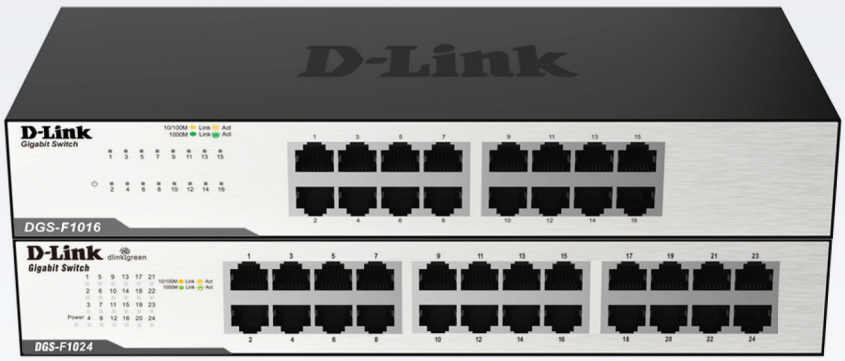
Gigabit ports allow you to connect up to 16 or 24 devices for fast file transfers and smooth media streaming

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-F1016/F1024

16/24-Port 10/100/1000 Mbps Unmanaged Switch

Features

Fast Connectivity

- Sixteen or twenty-four (DGS-F1016/DGS-F1024) 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 switch to run silently

The DGS-F1016 and DGS-F1024 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 16 or 24 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 connections a cinch; just plug in your cables and you're ready to go.

Conserve Energy

The DGS-F1016 and DGS-F1024 support 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.

Reliable Plug and Play Installation

The DGS-F1016 and DGS-F1024 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. IEEE 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.

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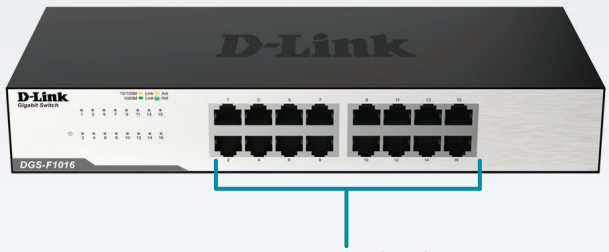
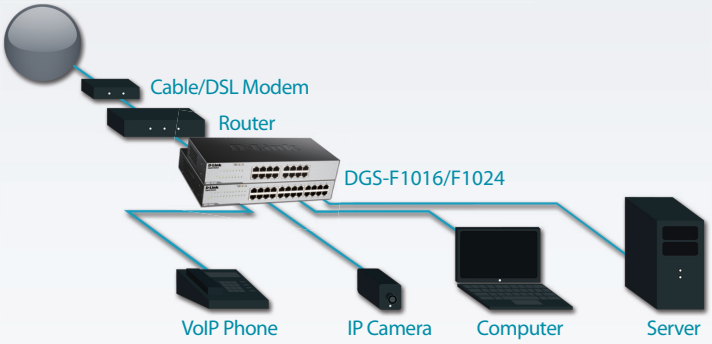
Smooth Streaming

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.

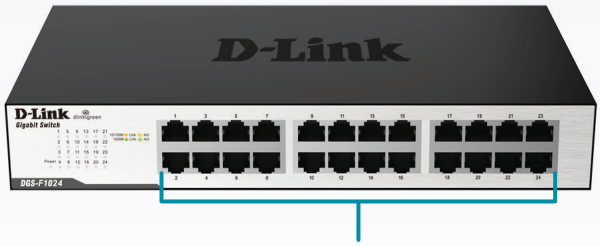
DGS-F1016



Your Network Setup



DGS-F1024



Technical Specifications

General	DGS-F1016	DGS-F1024
Device Interfaces	• 16 x 10/100/1000 Mbps LAN ports	• 24 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)	• 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	• 48 Gbps c
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 bytes 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)	• Auto-MDI/MDIX crossover for all ports • Secure store-and-forward switching scheme • Full/half-duplex for Ethernet/Fast Ethernet speeds • Supports 9,216 bytes 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)
		• 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)

DGS-F1016/F1024
16/24-Port 10/100/1000 Mbps Unmanaged Switch

Transmission Method	• Store-and-forward	• Store-and-forward
MAC Address Table Size	• 8,000 entries	• 8,000 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	• 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	• 512 KB per device
Physical		
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	• 280 x 126 x 44 mm (11.02 x 4.96 x 1.73 in)	• 280 x 180 x 44 mm (11.02 x 7.09 x 1.73 in)
Weight	• 0.87 kg (1.92 lbs)	• 1.35 kg (2.98 lbs)
Power Input	• 12 V / 1 A	• 100 to 240 V AC
Power Consumption	• Standby: 4.1 W • Maximum: 11.7 W	• Standby: 4.4 W • Maximum: 15.4 W
Temperature	• Operating: 0 to 40 °C (32 to 104 °F) • Storage: -40 to 70 °C (-40 to 158 °F)	• 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	• Operating: 10% to 90% non-condensing • Storage: 5% to 95% non-condensing
MTBF	• 305,171 hours	• 302,287 hours
Maximum Heat Dissipation	• 39.92 BTU/h	• 52.54 BTU/h
Emissions (EMI)	• CE Class A • FCC Class A • VCCI Class A • BSMI • CCC	• CE Class A • FCC Class A • VCCI Class A • BSMI • CCC
Safety	• UL • CB • LVD • BSMI • CCC	• UL • CB • LVD • BSMI • CCC

Order Information

Part Number	Description
DGS-F1016	16-Port 10/100/1000 Mbps Unmanaged Switch
DGS-F1024	24-Port 10/100/1000 Mbps Unmanaged Switch

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