# 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

**Easy Setup / Plug Play**

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

**6KV Surge Protection**

Enhanced with 6KV surge protection Effectively guard equipment from lighting damage

## DGS-1016C/1024C

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

## Features

### Fast Connectivity

- Sixteen or twenty-four (DGS-1016C/DGS-1024C) Gigabit LAN ports for high-speed wired connections
- Plug-and-play installation for convenience no need to be a tech savvy as the device will work from out of the box
- Supports 6KV protection for power supply on all ports

The DGS-1016C and DGS-1024C 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.
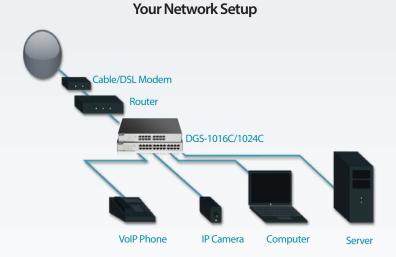
## Reliable Plug and Play Installation

The DGS-1016C and DGS-1024C 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.

**DGS-1016C**



Sixteen 10/100/1000 Gigabit Ethernet Ports

**Your Network Setup**



Cable/DSL Modem

Router

DGS-1016C/1024C

VoIP Phone · IP Camera · Computer · Server

**DGS-1024C**



Twenty-four 10/100/1000 Gigabit Ethernet Ports

## Technical Specifications

| General | DGS-1016C | DGS-1024C |
|---|---|---|
| Device Interfaces | • 16 x 10/100/1000 Mbps LAN ports | • 24 x 10/100/1000 Mbps LAN ports |
| Standards | • IEEE 802.3 10BASE-T<br>• IEEE 802.3u 100BASE-TX<br>• IEEE 802.3ab 1000BASE-T<br>• IEEE 802.3x Flow Control<br>• Support Layer 2 OSI Model | • IEEE 802.3 10BASE-T<br>• IEEE 802.3u 100BASE-TX<br>• IEEE 802.3ab 1000BASE-T<br>• IEEE 802.3x Flow Control<br>• Support Layer 2 OSI Model |
| **Functionality** | | |
| Switching Capacity | • 32 Gbps | • 48 Gbps |
| Advanced Features | • Auto-MDI/MDIX crossover for all ports<br>• Secure store-and-forward switching scheme<br>• Full/half-duplex for Ethernet/Fast Ethernet speeds<br>• Supports 9,216 bytes jumbo frames<br>• Back pressure at half-duplex operation<br>• Wire-speed reception and transmission<br>• Auto-negotiation for each port | • Auto-MDI/MDIX crossover for all ports<br>• Secure store-and-forward switching scheme<br>• Full/half-duplex for Ethernet/Fast Ethernet speeds<br>• Supports 9,216 bytes jumbo frames<br>• Back pressure at half-duplex operation<br>• Wire-speed reception and transmission<br>• Auto-negotiation for each port |
| Data Transfer Rates | • Ethernet:<br>  • 10 Mbps (half-duplex)<br>  • 20 Mbps (full-duplex)<br>• Fast Ethernet:<br>  • 100 Mbps (half-duplex)<br>  • 200 Mbps (full-duplex)<br>• Gigabit Ethernet<br>  • 2000 Mbps (full-duplex) | • Ethernet:<br>  • 10 Mbps (half-duplex)<br>  • 20 Mbps (full-duplex)<br>• Fast Ethernet:<br>  • 100 Mbps (half-duplex)<br>  • 200 Mbps (full-duplex)<br>• Gigabit Ethernet<br>  • 2000 Mbps (full-duplex) |

| | | |
|---|---|---|
| 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<br>• Fast Ethernet: 148,800 pps per port<br>• Gigabit Ethernet: 1,488,000 pps per port | • Ethernet: 14,880 pps per port<br>• Fast Ethernet: 148,800 pps per port<br>• Gigabit Ethernet: 1,488,000 pps per port |
| **Physical** | | |
| LED Indicators | • 16*Link/Act indicator<br>• 1*Power Indicator | • 24*Link/Act Indicator<br>• 1*Power Indicator |
| Media Interface Exchange | • Auto-MDI/MDIX adjustment for all ports | • Auto-MDI/MDIX adjustment for all ports |
| Dimensions | • 29.4 cm x 17.9 cm x 4.4 cm | • 29.4 cm x 17.9 cm x 4.4 cm |
| Power Input | • 100 to 240 V AC | • 100 to 240 V AC |
| Transmission Media | • 10BASE-T: UTP category 3, 4, 5 cable<br>• 100BASE-TX/1000BASE-T: UTP category 5, 5e or above | • 10BASE-T: UTP category 3, 4, 5 cable<br>• 100BASE-TX/1000BASE-T: UTP category 5, 5e or above |
| Temperature | • Operating: 0 to 45℃<br>• Storage: -40 to 70℃ | • Operating: 0 to 45℃<br>• Storage: -40 to 70℃ |
| Humidity | • Operating: 10% to 90% non-condensing<br>• Storage: 5% to 90% non-condensing | • Operating: 10% to 90% non-condensing<br>• Storage: 5% to 90% non-condensing |
| Lightning Proof | • 6KV for power supply, 6KV for all ports | • 6KV for power supply, 6KV for all ports |
| Certification | • CE<br>• FCC | • CE<br>• FCC |
| **Order Information** | | |
| *Part Number* | *Description* | |
| DGS-1016C | 16-Port 10/100/1000 Mbps Unmanaged Switch | |
| DGS-1024C | 24-Port 10/100/1000 Mbps Unmanaged Switch | |

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