

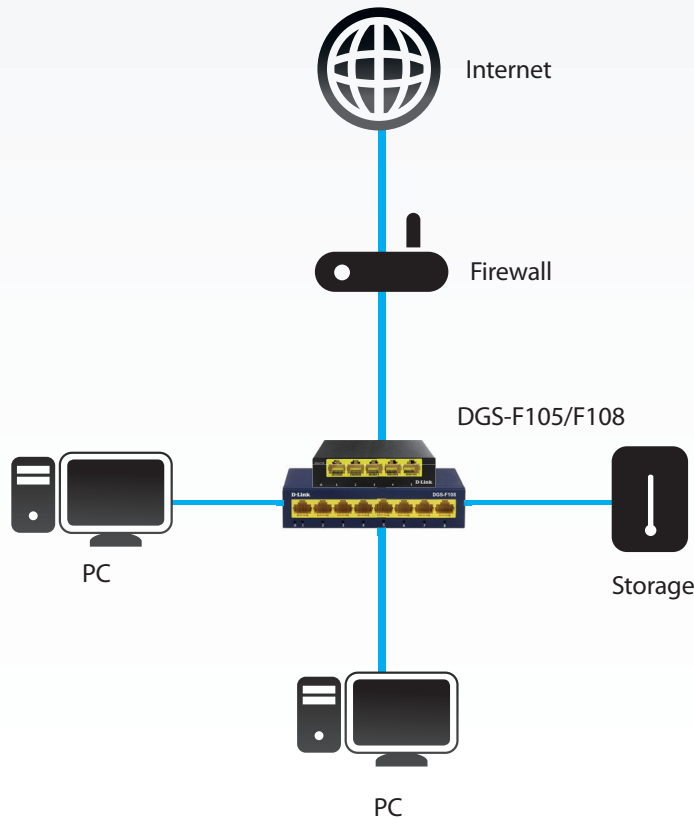
Green Technology

The DGS-F105/F108 switches feature green technology, such as IEEE 802.3az Energy-Efficient Ethernet (EEE), link status detection, and cable length detection. Energy-Efficient Ethernet reduces power consumption of the switch when network utilization is low, reducing the cost of ownership during periods of inactivity. Link status detection automatically powers down ports when there is no link detected, saving power when the connected device has been shut down or disconnected. Cable length detection automatically adjusts the power output of the port based on the length of the cable, reducing the power requirements of the switch to only what is necessary for the installation.

Traffic Management

The DGS-F105/F108 switches include traffic management features, such as IEEE 802.1p Quality of Service (QoS)* and IEEE 802.3x Flow Control. The 802.1p QoS* feature allows traffic to be classified in 8 priority levels, allowing different types of traffic to be prioritized, depending on their importance. Flow Control signals to clients when the switch's input buffer is full, helping to minimize dropped packets and providing a more reliable connection for all of your connected devices.

Example Network Topology



5/8-Port 10/100/1000 Mbps Unmanaged Switches

Technical Specifications

General

Model Number	• DGS-F105	• DGS-F108
Device Interfaces	• 5 10/100/1000BASE-T ports	• 8 10/100/1000BASE-T ports
Standards	<ul style="list-style-type: none"> • 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) 	
Media Interface Exchange	• Auto MDI/MDIX adjustment for all ports	

Performance

Transmission Method	• Store-and-forward	
Data Transfer Rates	<ul style="list-style-type: none"> • Ethernet: • 10 Mbps (half-duplex) • 20 Mbps (full-duplex) 	<ul style="list-style-type: none"> • Fast Ethernet: • 100 Mbps (half-duplex) • 200 Mbps (full-duplex)
Packet Filtering/Forwarding Rates	<ul style="list-style-type: none"> • Ethernet: 14,880 pps per port • Fast Ethernet: 148,800 pps per port • Gigabit Ethernet: 1,488,000 pps per port 	
MAC Address Table	• 2K entries	• 4K entries
MAC Address Learning	• Automatic update	
RAM Buffer	• 128 KB	• 192 KB

LEDs

Power (per unit)	✓
Link/Activity/Speed (per port)	✓

Physical

Dimensions	• 92mm*82mm*22mm	• 125x75x27mm
Weight	• 0.2kg	• 0.45kg
Power	• 12V/1 A	
Power Consumption	<ul style="list-style-type: none"> • Powered on (standby): • DC input: 0.24 W • Maximum: • DC input: 2.16 W 	<ul style="list-style-type: none"> • Powered on (standby): • DC input: 0.3 W • Maximum: • DC input: 2.4 W
Temperature	<ul style="list-style-type: none"> • Operating: 0 to 40 °C • Storage: -40 to 70 °C 	
Humidity	<ul style="list-style-type: none"> • Operating: 10% to 90% non-condensing • Storage: 5% to 90% non-condensing 	
MTBF	• 629,143 hours	• 629,143 hours
Heat Dissipation	• Maximum: 6.2 BTU/h	• Maximum: 9.5 BTU/h

Order Information

Part Number	Description
DGS-F105	5 port 10/100/1000 Mbps unmanaged switch
DGS-F108	8 port 10/100/1000 Mbps unmanaged switch

* Supported on DGS-F108 H2