



Hardware Installation Guide

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FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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CE Mark Warning

This equipment is compliant with Class A of CISPR 32. In a residential environment, this equipment may cause radio interference.

Avertissement Concernant la Marque CE

Cet équipement est conforme à la classe A de la norme CISPR 32. Dans un environnement résidentiel, cet équipement peut provoquer des interférences radio.

VCCI Warning

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が 適切な対策を講ずるよう要求されることがあります。 VCCI-A

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Safety Compliance

Warning: Class 1 Laser Product: When using a fiber optic media expansion module, never look at the transmit laser while it is powered on. In addition, never look directly at the fiber TX port and fiber cable ends when they are powered on.

Avertissement: Produit Laser de Classe 1: Ne regardez jamais le laser tant qu'il est sous tension. Ne regardez jamais directement le port TX (Transmission) à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

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Intended Readers

The DGS-1520 Series Gigabit Ethernet Smart Managed Switch Hardware Installation Guide contains detailed information about the hardware specifications of the switches in this series. It also contains brief information on how to configure and manage a switch in this series. This manual is intended for advanced level users that are familiar with network management concepts and terminology.

Typographical Conventions

Convention	Description	
Boldface Font	This convention is used to place emphasis on keywords. It also indicates a button, toolbar icon, menu, menu item, system message, or a prompt appearing on the screen. For example, click the Apply button.	
Initial capital letter	This convention is used to indicate a window name or keyboard key. For example, press the Enter key.	
Blue Courier Font	This convention is used to represent a CLI example.	

Notes and Cautions

NOTE: A note indicates important information that helps you make better use of your device.



CAUTION: A caution indicates a potential for property damage, personal injury, or death.
 ATTENTION: Une précaution indique un risque de dommage matériel, de blessure corporelle ou de mort.

1. Introduction

Switch Description Package Contents

Switch Description

The DGS-1520 series is the latest next generation of Smart Managed switches from D-Link. Switches in this series feature a wide selection of different ports types and speeds that can be used to interconnect a variety of networking devices to communicate with each other. The SFP+ ports, with fiber-optical cabling, can be used to uplink connections that may span over great distances. Switches in this series also implement D-Link's innovative third generation Green Ethernet technology (IEEE 802.3az) to save power from links that are inactive by turning LEDs off based on a customized schedule and by allowing ports to enter a hibernated state automatically.

In the **DGS-1520 Series**, the following switches are available: **DGS-1520-28**, **DGS-1520-28MP**, **DGS-1520-52**, and **DGS-1520-52MP**. Some features, throughout this guide, will apply to all the switches within the DGS-1520 Series. When referring to these universal features, we will simply refer to the product as the *Switch*.

Package Contents

Open the shipping carton of the Switch and carefully unpack its contents. The carton should contain the following items:

- One DGS-1520 series switch
- One AC power cord
- One AC power cord retainer set
- One console cable (RJ45 to RS-232)
- Four rubber feet with adhesive backing
- · One rack mounting kit, containing two brackets and a number of screws
- One quick installation guide



NOTE: If any item is missing or damaged, please contact your local D-Link reseller for replacement.

2. Hardware Components

Front Panel Components Rear Panel Components Side Panel Components

Front Panel Components

The front panel features components like LED indicators, a reset button, a Console port, and a variety of Ethernet ports. These components are described in detail below.

This following table lists the front panel components on **all** the switches in the series:

Port	Description	
Reset Button	The reset button is used to reboot the switch or to reset the switch to its factory default settings depending on how long this button is pressed.	
	 Press and hold for less than 5 seconds - This reboots the Switch. All unsaved configurations will be lost. 	
	 Press and hold for between 5 and 10 seconds - This reboots the Switch and restarts the ZTP function. All unsaved configurations will be lost. 	
	 Press and hold for more than 10 seconds - This resets the software configuration on the Switch to the factory default settings. 	
Console Port	The console port is used to connect to the CLI of the switch. The connection is out- of-band and the console cable (included in the package) must be used for the connection.	

D-Link			16 17 18 19 20 21 22 23 24 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
DIRK	Φ		
	Console Fan Error Reset/ZTP		
DGS-1520-28		Link • /Act 8: 1G = 10/100M =	

Figure 2-1 DGS-1520-28 Front Panel

This following table lists the front panel components unique to the **DGS-1520-28**:

Port Type	Port Number	Description
RJ45 Port (10/100/1000 Mbps)	Ports 1 to 24	This switch is equipped with 24 RJ45 Ethernet ports that can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds.
RJ45 Port (1/10 Gbps)	Ports 25 to 26	This switch is equipped with 2 RJ45 Ethernet ports that can operate at 1 Gbps and 10 Gbps wire-speeds.
SFP+ Ports (1/10 Gbps)	Ports 27 to 28	This switch is equipped with 2 SFP/SFP+ ports that can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

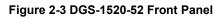
D-Link	
DGS-1520-28MP	

Figure 2-2 DGS-1520-28MP Front Panel

This following table lists the front panel components unique to the **DGS-1520-28MP**:

Port Type	Port Number	Description
RJ45 PoE Port (10/100/1000 Mbps)	Ports 1 to 20	This switch is equipped with 20 RJ45 PoE ports that can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds and supply IEEE 802.3af/at power to PDs.
RJ45 PoE Port (100/1000/2500 Mbps)	Ports 21 to 24	This switch is equipped with 4 RJ45 PoE ports that can operate at 100 Mbps, 1 Gbps, and 2.5 Gbps wire-speeds and supply IEEE 802.3af/at power to PDs.
RJ45 Port (1/10 Gbps)	Ports 25 to 26	This switch is equipped with 2 RJ45 Ethernet ports that can operate at 1 Gbps and 10 Gbps wire-speeds.
SFP+ Ports (1/10 Gbps)	Ports 27 to 28	This switch is equipped with 2 SFP/SFP+ ports that can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

D-Link 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 28 27 28 29 30 31 32 33 34 35 38 37 38 39 40 41 42 43 44 45 46 47 ▲ ♥ ▲ ♥ ▲ ♥ ▲ ♥ ▲ ♥ ▲ ♥ ▲ ♥ ▲ ♥ ▲ ♥ ▲ ♥	48 49 ▲ ▼ 50 51 52
	دے	
Reset/ZTPO Link • / Act + 10 = 10100M =		



This following table lists the front panel components unique to the DGS-1520-52:

Port Type	Port Number	Description
RJ45 Port (10/100/1000 Mbps)	Ports 1 to 48	This switch is equipped with 48 RJ45 Ethernet ports that can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds.
RJ45 Port (1/10 Gbps)	Ports 49 to 50	This switch is equipped with 2 RJ45 Ethernet ports that can operate at 1 Gbps and 10 Gbps wire-speeds.
SFP+ Ports (1/10 Gbps)	Ports 51 to 52	This switch is equipped with 2 SFP/SFP+ ports that can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

D-Link 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28 29 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	49 ▲ ▼ 50 51 52 ● ●
	요소소소 요소소소 소소소소	
Reset/ZTPO Link @/Act & IG # 10/1000/# 23G # 1000//IG# PoE OK # PoE Pot #		Link • / Act # 103 = 10 =

Figure 2-4 DGS-1520-52MP Front Panel

This following table lists the front panel components unique to the DGS-1520-52MP:

Port Type	Port Number	Description
RJ45 PoE Port (10/100/1000 Mbps)	Ports 1 to 44	This switch is equipped with 44 RJ45 PoE ports that can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds and supply IEEE 802.3af/at power to PDs.
RJ45 PoE Port (100/1000/2500 Mbps)	Ports 45 to 48	This switch is equipped with 4 RJ45 PoE ports that can operate at 100 Mbps, 1 Gbps, and 2.5 Gbps wire-speeds and supply IEEE 802.3af/at power to PDs.
RJ45 Port (1/10 Gbps)	Ports 49 to 50	This switch is equipped with 2 RJ45 Ethernet ports that can operate at 1 Gbps and 10 Gbps wire-speeds.

Port Type	Port Number	Description
SFP+ Ports (1/10 Gbps)	Ports 51 to 52	This switch is equipped with 2 SFP/SFP+ ports that can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

Front Panel LED Indicators

The LED indicators provide valuable information in a variety of ways like their color, blinking times, and location.

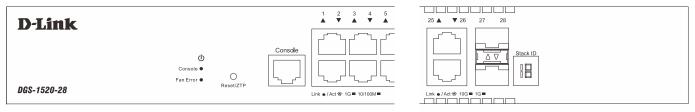


Figure 2-5 DGS-1520-28 Front Panel LED Indicators

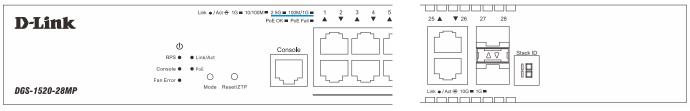
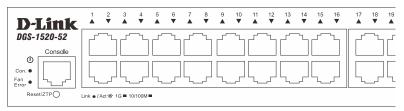


Figure 2-6 DGS-1520-28MP Front Panel LED Indicators



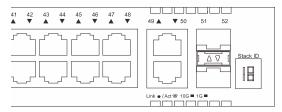
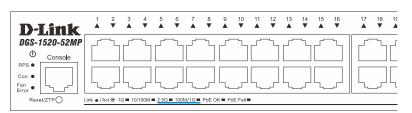


Figure 2-7 DGS-1520-52 Front Panel LED Indicators



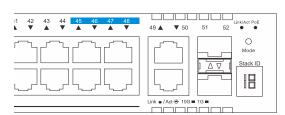


Figure 2-8 DGS-1520-52MP Front Panel LED Indicators

The front panel LED indicators (per device) are described in the following table:

LED	Color	Status	Description
Power	Green	On (Solid)	Power on
		On (Blinking)	Performing system self-test
		Off	Power off
RPS	Green	On (Solid)	RPS on
(PoE Switches Only)		Off	RPS off
Console	Green	On (Solid)	Console session is active (user logged in)
		Off	Console session is inactive (user logged out)

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LED	Color	Status	Description
Fan Error	Green	On (Solid)	Normal operation (diagnostics test passed)
	Red	On (Solid)	Fan off (due to fan runtime failure)
Link/Act Mode	Green	On (Solid)	Link/Act/Speed mode selected (via Mode button)
(PoE Switches Only)		Off	PoE mode selected (via Mode button)
PoE ModeGreen(PoE Switches Only)Green	Green	On (Solid)	PoE mode selected (via Mode button)
		Off	Link/Act/Speed mode selected (via Mode button)
Stack ID	Green	On (Solid) 1 to 8	The stacking ID number of the switch in the stack
(7-segment LED)		On (Solid) H	The switch is the master switch in the stack
		On (Solid) h	The switch is the backup master switch in the stack
		On (Solid) e	There was an error in the system's self-test
		On (Solid) G	The Safeguard engine entered the exhausted mode

The front panel LED indicators (per RJ45 port) are described in the following table:

LED	Color	Status	Description
Link/Act	Green	On (Solid)	Active connection at 1 Gbps through the port
(1G, 10/100M)		On (Blinking)	Data transmitted and received through the port
(top of each port)	Amber	On (Solid)	Active connection at 10/100 Mbps through the port
		On (Blinking)	Data transmitted and received through the port
	Off	Off	Inactive connection or no link present
Link/Act	Green	On (Solid)	Active connection at 2.5 Gbps through the port
(2.5G, 100M/1G)		On (Blinking)	Data transmitted and received through the port
(PoE Switches Only) (top of each port)	Amber	On (Solid)	Active connection at 100 Mbps or 1 Gbps through port
		On (Blinking)	Data transmitted and received through the port
	Off	Off	Inactive connection or no link present
Link/Act (10G, 1G) (top of each port)	Green	On (Solid)	Active connection at 10 Gbps through the port
		On (Blinking)	Data transmitted and received through the port
	Amber	On (Solid)	Active connection at 1 Gbps through the port
		On (Blinking)	Data transmitted and received through the port
	Off	Off	Inactive connection or no link present
PoE OK/Fail (PoE Switches Only)	Green	On (Solid)	Power being supplied to PD through the port
	Amber	On (Solid)	An error condition is occurring
(top of each port)	Off	Off	No power being supplied through the port

The front panel LED indicators (per SFP+ port) are described in the following table:

LED	Color	Status	Description
Link/Act	Green	On (Solid)	Active connection at 10 Gbps through the port
(top of each port)		On (Blinking)	Data transmitted and received through the port
	Amber	On (Solid)	Active connection at 1 Gbps through the port
		On (Blinking)	Data transmitted and received through the port
	Off	Off	Link down or no link

The behavior of the LEDs during the booting or rebooting process is described in the following table:

Switch	LED(s)	Behavior
DGS-1520-28 DGS-1520-52	Power LED	Blinks green when the switch is powered on. Then, lights solid green until the system is ready.
	Console LED	Lights solid green when the switch is powered on. Then, returns to normal operation when the system is ready.
	Fan LED	Lights solid green when the switch is powered on. Then, returns to normal operation when the system is ready.
	Stacking LED	Lights solid green when the switch is powered on. Then, returns to normal operation when the system is ready.
	Link/Act LEDs	Light solid green and amber when the switch is powered on. Then, blinks green until the system is ready.
DGS-1520-28MP DGS-1520-52MP	Power LED	Blinks green when the switch is powered on. Then, lights solid green until the system is ready.
	Console LED	Lights solid green when the switch is powered on. Then, returns to normal operation when the system is ready.
	Fan LED	Lights solid green when the switch is powered on. Then, returns to normal operation when the system is ready.
	Stacking LED	Lights solid green when the switch is powered on. Then, returns to normal operation when the system is ready.
	Link/Act Mode LED	Lights solid green when the switch is powered on. Then, returns to normal operation when the system is ready.
	Link/Act LEDs	Light solid green and amber when the switch is powered on. Then, blinks green until the system is ready.

Rear Panel Components

The rear panel features components like an AC power socket, a security lock, an electrical ground point, and more. These components are described in detail below.

Port	Description
AC Power Connector	The AC power cord (included in the package) can be plugged into this receptacle to supply the switch with 100-240 VAC power at 50-60 Hz.
Power Cord Retainer Hole	The power cord retainer hole is used to insert the power cord retainer to secure the AC power cord.
Switch GND	Use an electrical grounding wire and connect one end of the wire to the switch GND and the other end of the wire to an electrical grounding point most commonly found on the Switch mounting rack itself.
Security Lock	The Kensington-compatible security lock can be used to connect the Switch to a secure immovable device. Insert the lock into the notch and turn the key to secure the lock. The lock-and-cable apparatus should be purchased separately.

This following table lists the front panel components on **all** the switches in the series:



Figure 2-9 DGS-1520-28 Rear Panel

This following table lists the front panel components unique to the DGS-1520-28:

Port	Description
MGMT Port (PoH IN Port)	The RJ45 Management (MGMT) port is an IP-based, Out-Of-Band (OOB) port for Telnet, Web, or SNMP management that operates at 10/100/1000 Mbps wire-speed. This port can be used to configure the Switch without being connected to the network.
	The MGMT port can also be used to supply the Switch with 90W DC power using Power over HDBaseT. This can be used as the main power source or as the secondary power source to the Switch.

SWITCH OND	Redundant Power Supply	ß	•
・ (二) ・ ・・・・・・・・・・・	•	•	

Figure 2-10 DGS-1520-28MP Rear Panel

This following table lists the front panel components unique to the DGS-1520-28MP:

Port	Description
Redundant Power Supply	The RPS port can be used to connect an optional external load-sharing RPS to the Switch. When the internal power fails, the external RPS will immediately supply power to the Switch automatically.

SWITCH GND	ß
⑦ (日) 040 ① ⑦ (日) 04	PD O Link/Act O

Figure 2-11 DGS-1520-52 Rear Panel

This following table lists the front panel components unique to the DGS-1520-52:

Port	Description
MGMT Port (PoH IN Port)	The RJ45 Management (MGMT) port is an IP-based, Out-Of-Band (OOB) port for Telnet, Web, or SNMP management that operates at 10/100/1000 Mbps wire-speed. This port can be used to configure the Switch without being connected to the network.
	The MGMT port can also be used to supply the Switch with 90W DC power using Power over HDBaseT. This can be used as the main power source or as the secondary power source to the Switch.

SWITCH GND - 2993 / 2998 3	¢	Redundant Power Supply	ß	•
② ③ ④ ① ○<	•	0		

Figure 2-12 DGS-1520-52MP Rear Panel

This following table lists the front panel components unique to the DGS-1520-52MP:

Port	Description
Redundant Power Supply	The RPS port can be used to connect an optional external load-sharing RPS to the Switch. When the internal power fails, the external RPS will immediately supply power to the Switch automatically.

Rear Panel LED Indicators

The rear panel LED indicators provide valuable information in a variety of ways like their color, blinking times, and location.

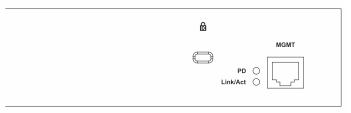


Figure 2-13 DGS-1520-28/52 Rear Panel LED Indicators

The rear panel LED indicators (per device) are described in the following table:

LED	Color	Status	Description
Link/Act	Green	On (Solid)	Active connection at 1 Gbps through the MGMT port
		On (Blinking)	Data transmitted and received through the MGMT port
	Amber	On (Solid)	Active connection at 10/100 Mbps through the MGMT port
		On (Blinking)	Data transmitted and received through the MGMT port
	Off	Off	Inactive connection or no link present
PD	Green	On (Solid)	Receiving DC power from PoH PSE connected to the MGMT port
	Amber	On (Solid)	Normal MGMT connection active (no PoH supplied). When a PSE is connected, this light indicates that a power supply failure has occurred.
	Off	Off	No PoH PSE or MGMT connection is present

Side Panel Components

The side panels feature components like heat vents, fans, and rack-mounting screw holes. These components are described in detail below. The heat vents are used to dissipate internal heat and facilitate internal air circulation.

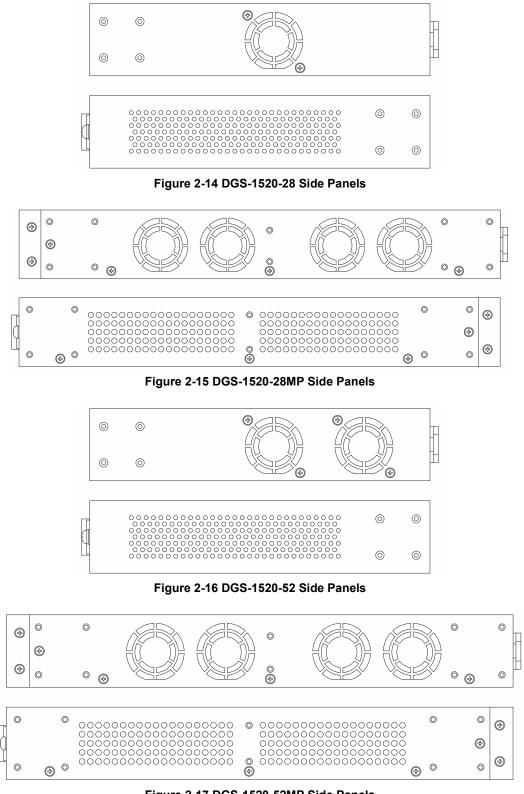


Figure 2-17 DGS-1520-52MP Side Panels

Smart Fans

The DGS-1520 Series Switches includes **smart fans** that will automatically change their speed depending on the internal temperature detected by the sensors built-in the Switch's hardware.

The following table lists at what temperature the speed of the fan(s) will change:

Module	Low Speed	Medium Speed	High Speed
DGS-1520-28	Below 30°C	Above 33°C / Below 37°C	Above 40°C
DGS-1520-28MP	Below 30°C	Above 33°C / Below 37°C	Above 40°C
DGS-1520-52	Below 30°C	Above 33°C / Below 37°C	Above 40°C
DGS-1520-52MP	Below 30°C	Above 33°C / Below 37°C	Above 40°C

3. Installation

Installation Guidelines Installing the Switch without a Rack Installing the Switch in a Standard 19" Rack Installing Transceivers into the Transceiver Ports Connecting AC Power to the Switch Connecting PoH to the Switch Installing the Redundant Power Supply (RPS)

Installation Guidelines

This section will discuss the hardware installation guidelines that the user must follow in order to properly and safely install this switch into the appropriate environment.

- Visually inspect the power cord and see that it is fully secured to both the power connector, on the Switch, and the electrical outlet that supplies power.
- Install the Switch in a fairly cool and dry place within the acceptable operating temperature and humidity ranges. For more information about the acceptable operating temperature and humidity ranges, refer to the Physical and Environmental section.
- Install the Switch in a site free from strong electromagnetic field generators such as motors, vibration, dust, and direct exposure to sunlight.

Installing the Switch without a Rack

This section is used to guide the user through installing the Switch in an area other than a switch rack. Attach the included rubber feet to the bottom of the Switch. Take note that there should be marked blocks on the bottom of the Switch to indicate where to attach the rubber feet. These markings are usually found in each corner on the bottom of the device. The rubber feet cushion the Switch, protecting the casing from scratches and preventing it from scratching other surfaces.

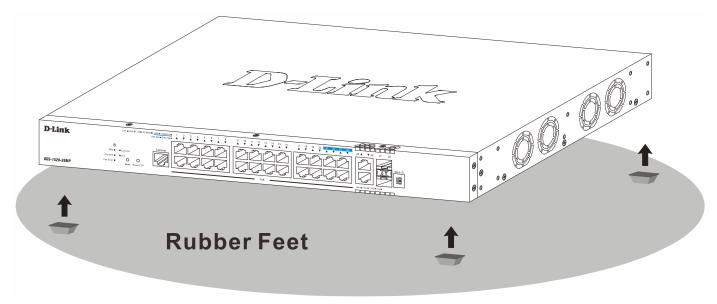


Figure 3-1 Attaching rubber feet to the Switch

Install the Switch on a sturdy, level surface that can support the weight of the Switch. Do not place any heavy objects on the Switch. The power outlet should be within 1.82 meters (6 feet) of the Switch. Make sure that there is proper heat dissipation from and adequate ventilation around the Switch. Leave at least 10 cm (4 inches) of space at the front, sides, and rear of the Switch for ventilation.

Installing the Switch in a Standard 19" Rack

This section is used to guide the user through installing the Switch into a switch rack. The Switch can be mounted in a standard 19"(1U) rack using the **rack mounting kit** included in the package contents.

Fasten the mounting brackets to the sides of the Switch using the screws provided.

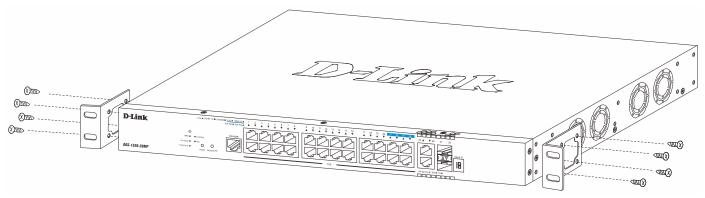


Figure 3-2 Attaching rack-mount brackets to the Switch

Fasten the mounting brackets in any available open space in the rack using the screws provided.

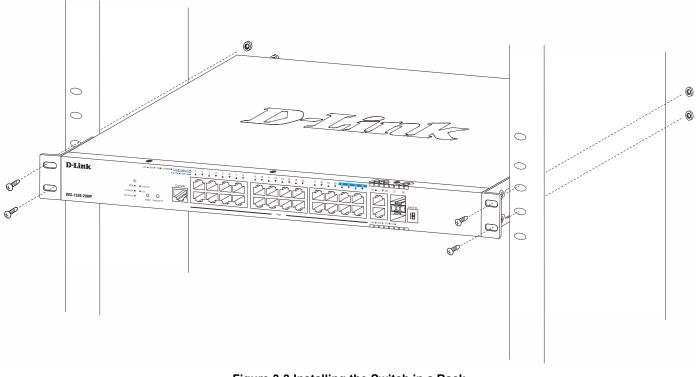


Figure 3-3 Installing the Switch in a Rack

Make sure that there is adequate space around the Switch to allow for proper airflow, ventilation, and cooling.

Installing Transceivers into the Transceiver Ports

The Switch is equipped with SFP+ ports that can be used to connect various networking devices to this switch that do not support the standard RJ45 wiring connection. These ports are generally used to connect this switch to optical fiber connections and can be used to connect devices to the Switch over great distances. The maximum distance that the RJ45 wiring connection can reach is 100 meters. Fiber optic connections can span several kilometers.

The figure below illustrates how to insert SFP/SFP+ transceivers into the SFP+ ports.

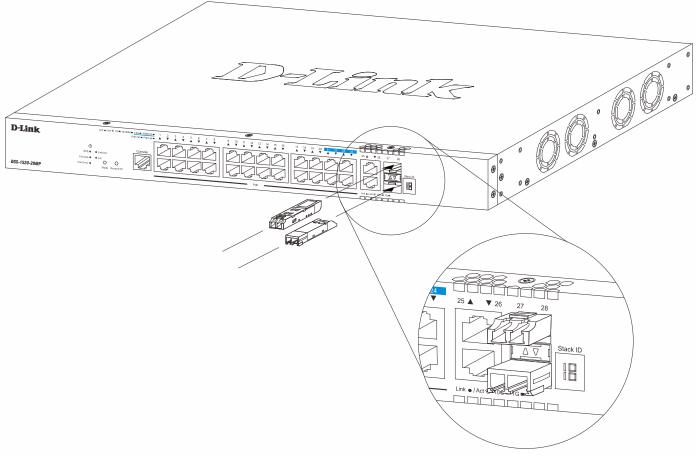


Figure 3-4 Inserting transceivers into the transceiver ports



NOTE: For the full list of D-Link SFP/SFP+ transceivers that are supported on the Switch, refer to the **Supported SFP/SFP+ Transceivers** table on page 33.

NOTE: Only use pluggable optical modules and Direct-Attach Cables (DAC) that meet the following regulatory requirements:

- Class 1 Laser Product
- UL and/or CSA registered component for North America
- FCC 21 CFR Chapter 1, Sub-chapter J in accordance with FDA & CDRH requirements
- IEC/EN 60825-1/-2: 2007 2nd edition or later, European Standard

Connecting AC Power to the Switch

To connect AC power to the Switch, plug one end of the AC power cord into the AC power socket of the Switch and the other end of the AC power cord into the local AC power source outlet. There is no power switch/button on the Switch. The system will power on automatically.

After the system is powered on, the **Power** LED will blink green to indicate that the system is booting up. In the event of a power failure, just as a precaution, unplug the power cord from the Switch. After the power returned, plug the power cord back into the power socket of the Switch.

Installing the AC Power Cord Retainer

To prevent accidental removal of the AC power cord, it is recommended to install the **AC Power Cord Retainer Set** together with the AC power cord. The AC Power Cord Retainer Set is included in the package contents.

With the rough side facing down, insert the tie wrap into the hole below the power socket.

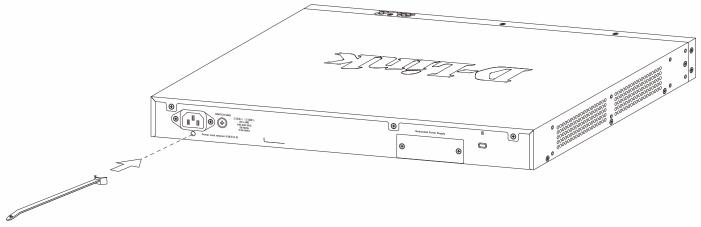


Figure 3-5 Insert Tie Wrap into the Switch

Plug the AC power cord into the power socket of the Switch.

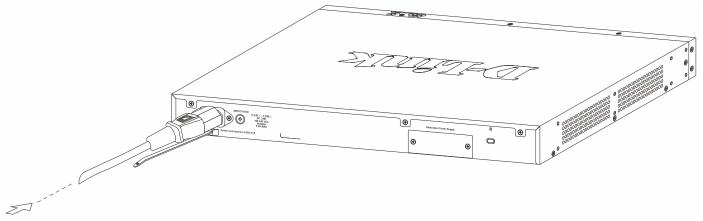


Figure 3-6 Connect the power cord to the Switch

Slide the retainer through the tie wrap until the end of the cord.

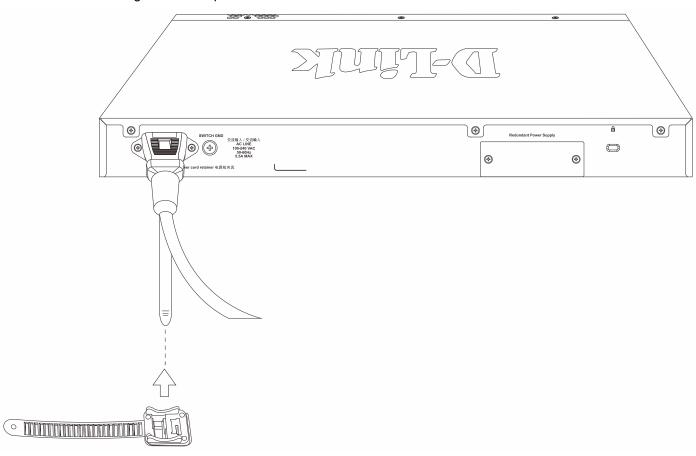


Figure 3-7 Slide the Retainer through the Tie Wrap

Circle the tie of the retainer around the power cord and into the locker of the retainer.

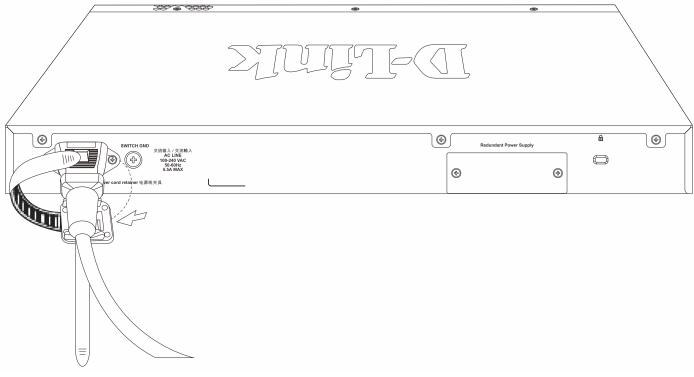


Figure 3-8 Circle around the power cord

Fasten the tie of the retainer until the power cord is secured.

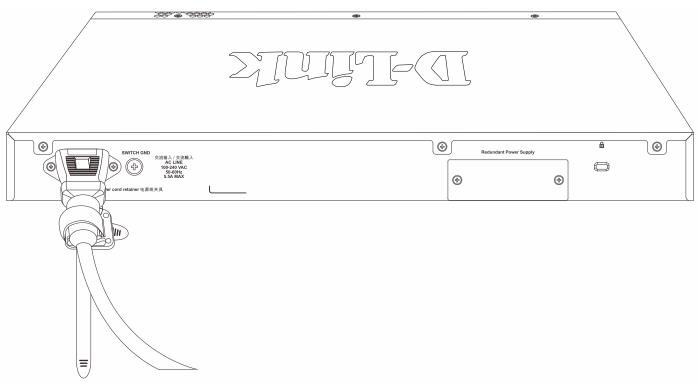


Figure 3-9 Secure the power cord

Connecting PoH to the Switch

When AC power is not available, the Switch can be powered using PoH (Power over HDBaseT) through the MGMT port. Adhering to HDBaseT, up to 90 Watts of DC power can be provided to the Switch from Power Sourcing Equipment (PSE) over a Category 5e/6a LAN cable.

When AC power is used, the PoH connection to the MGMT port can be used as a backup power supply to the Switch. When AC power fails, the PoH DC power through the MGMT port will keep the Switch powered on until AC power returns.



NOTE: Only the DGS-1520-28 and DGS-1520-52 feature a MGMT PoH-capable port on the back panel.



NOTE: The D-Link **DPS-520** Managed PSE is the recommended DC power sourcing equipment for the Switch.



CAUTION: Do not connect the RPS to AC power before the PoH cable is connected. This might damage the internal power supply.

ATTENTION: Ne branchez pas le RPS sur le courant alternatif avant que le câble PoH ne soit branché. Cela pourrait endommager l'alimentation électrique interne.

The following diagram illustrates how to connect the powered Ethernet cable from the PSE (at the bottom) to the MGMT port on the Switch (at the top).

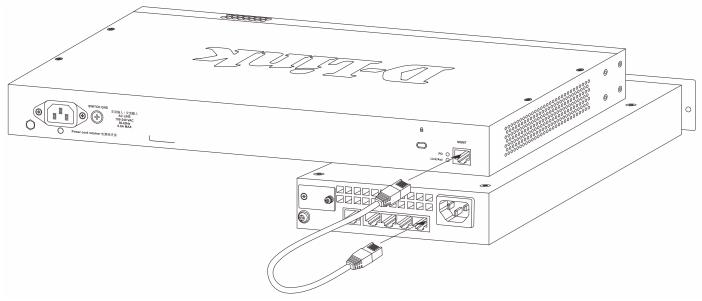


Figure 3-10 Connecting the PSE to the MGMT Port



CAUTION: Leave at least 15 cm (6 inches) of space at the rear of the Switch when an RPS is installed to prevent cable damage.

ATTENTION: Laissez un espace d'au moins 15 cm (6 pouces) à l'arrière du commutateur lorsqu'un RPS est installé pour éviter d'endommager les câbles.

Installing the Redundant Power Supply (RPS)

An RPS is an external unit, enclosed in solid metal casing, with sockets to connect AC or DC-powered sources at one end and to connect to a switch's internal power supply on the other end. The RPS provides a low-cost, simple solution to the problem of an inadvertent failure of the internal power supply of an Ethernet switch, which can result in the shutdown of that switch, the devices attached to its ports, or an entire network.

Connecting the DPS-700 RPS to the Switch

The D-Link DPS-700 is the recommended RPS for the Switch. This RPS is designed to conform to the wattage requirements of D-Link's Ethernet and Gigabit switches and can be connected to the RPS port of the Switch using a 22-pin DC power cable. A standard, three-pronged AC power cable connects the RPS to the main power source.



CAUTION: Do not connect the RPS to AC power before the DC power cable is connected. This might damage the internal power supply.

ATTENTION: Ne branchez pas le RPS sur le courant alternatif avant que le câble d'alimentation en courant continu ne soit branché. Cela pourrait endommager l'alimentation électrique interne.

To connect the RPS to the Switch, remove the AC power cord from the AC power port of the Switch. With a Phillips-head screwdriver, remove the RPS port cover by unscrewing the two screws that hold the RPS cover in place.

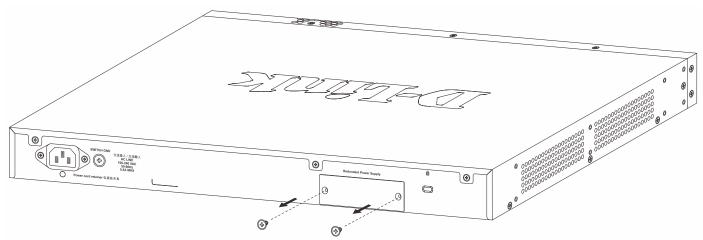


Figure 3-11 Removing the RPS port cover

Insert one end of the 22-pin DC power cable into the RPS port on the switch and the other end into the RPS. Connect the RPS to the main AC power source.

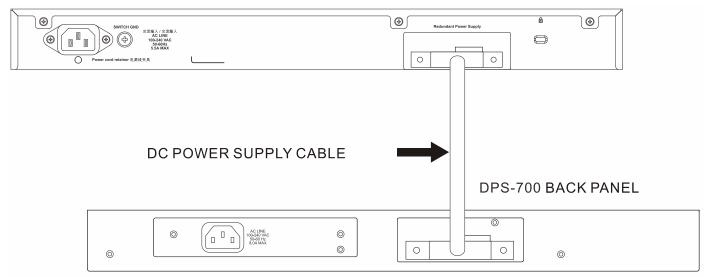


Figure 3-12 Connecting the DPS-700

A green LED on the front panel of the RPS will be on to indicate a successful connection. Reconnect the AC power cord to the AC power port of the Switch. The RPS LED indicator on the front panel of the Switch will indicate that an RPS is present and now in operation. No software configuration is required.



CAUTION: Leave at least 15 cm (6 inches) of space at the rear of the Switch when an RPS is installed to prevent cable damage.

ATTENTION: Laissez un espace d'au moins 15 cm (6 pouces) à l'arrière du commutateur lorsqu'un RPS

NOTE: Only the DGS-1520-28MP and DGS-1520-52MP feature a 22-pin RPS port on the back panel.

Always keep the RPS port cover installed when there is no RPS connected to the Switch.

est installé pour éviter d'endommager les câbles.

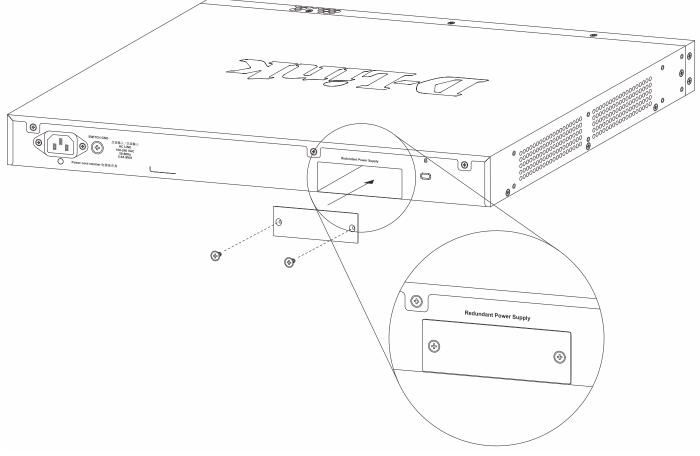


Figure 3-13 Reinstalling the RPS port cover (when no RPS is connected)

4. Switch Connections

Stacking the Switch Switch to Switch Switch to Server Switch to End Node

Stacking the Switch

Switches in this series support stacking up to 8 switches together while being managed through one console connection or MGMT connection on the master switch or through any of the RJ45/SFP+ ports using Telnet, the Web UI, and SNMP. This cost-effective switch provides an affordable solution for administrators to upgrade their networks using the stacking ports to scale and stack the Switches. This increases overall reliability, serviceability, and availability.

Switches in the series can be physically stacked with optical fiber cables or Direct Attached Cables (DACs) with SFP+ connectors. Only the last four SFP+ ports on the Switch can be used for physical stacking.

The following stacking topologies are supported on the Switch:

- **Duplex Chain** This topology stacks switches together in a chain-link format. Using this method, data transfer is only possible in one direction. If there is a break in the chain, data transfer will be affected.
- **Duplex Ring** This topology stacks switches in a ring or circle format where data can be transferred in two directions. It is very resilient because if there is a break in the ring, data can still be transferred through the stacking cables between switches in the stack using the alternate path.

In the following diagram, switches are stacked in the **Duplex Chain** topology using the two 10GBASE-T ports.

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DGS-1520-28MP	Fan Error Mode Reset/ZTP	

Figure 4-1 Duplex Chain Stacking Topology

In the following diagram, switches are stacked in the **Duplex Ring** topology using the two 10GBASE-T ports.

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Figure 4-2 Duplex Ring Stacking Topology

Physical stacking needs to be enabled and can be configured to support a **2-port** or **4-port** stacking configuration. SIO1 (Stacking Input/Output 1) and SIO2 are logical stacking port pairs. A logical stacking port pair must always be connected to the same Switch in the stack. Splitting logical stacking port pairs between different Switches in the stack might not guarantee a stable stacking connection.

The following table lists the stacking configuration with the corresponding SIO port pairs:

-		•	• • •	
Configuration	Switch	Logical SIO1	Logical SIO2	Bandwidth
2-port 10GBASE-T	DGS-1520-28	Port 25	Port 26	40 Gbps (full-duplex)
	DGS-1520-28MP	Port 25	Port 26	40 Gbps (full-duplex)
	DGS-1520-52	Port 49	Port 50	40 Gbps (full-duplex)
	DGS-1520-52MP	Port 49	Port 50	40 Gbps (full-duplex)
2-port SFP+	DGS-1520-28	Port 27	Port 28	40 Gbps (full-duplex)
	DGS-1520-28MP	Port 27	Port 28	40 Gbps (full-duplex)
	DGS-1520-52	Port 51	Port 52	40 Gbps (full-duplex)

DGS-1520 Series Gigabit Ethernet Smart Managed Switch Hardware Installation Guide

Configuration	Switch	Logical SIO1	Logical SIO2	Bandwidth
	DGS-1520-52MP	Port 51	Port 52	40 Gbps (full-duplex)
4-port	DGS-1520-28	Port 25 and 26	Port 27 and 28	80 Gbps (full-duplex)
	DGS-1520-28MP	Port 25 and 26	Port 27 and 28	80 Gbps (full-duplex)
	DGS-1520-52	Port 49 and 50	Port 51 and 52	80 Gbps (full-duplex)
	DGS-1520-52MP	Port 49 and 50	Port 51 and 52	80 Gbps (full-duplex)



NOTE: SIO1 (Stacking Input/Output 1) and SIO2 are logical stacking port pairs. A logical stacking port pair must always be connected to the same Switch in the stack. Splitting logical stacking port pairs between different Switches in the stack might not guarantee a stable stacking connection.

Switch to Switch

The Switch can be used to connect to any other switch or hub in the network. This network topology is used when the Switch does not have enough ports to cater for all the end nodes in the network.

There is a great deal of flexibility on how connections are made using the appropriate cabling.

- Connect a 10BASE-T or 100BASE-TX switch port to the Switch using a Category 3/4/5 UTP/STP cable.
- Connect a 1000BASE-T switch port to the Switch via a Category 5e UTP/STP cable.
- Connect a 2.5GBASE-T switch port to the Switch via a Category 5e/6 UTP/STP cable.
- Connect a 10GBASE-T switch port to the Switch via a Category 6a UTP/STP cable.
- Connect a fiber uplink switch port to the Switch's SFP+ port via a fiber optical cable.

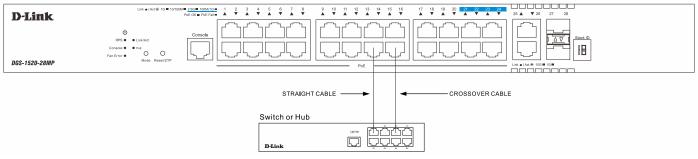


Figure 4-3 Switch to another Switch/Hub

Switch to Server

The Switch is ideal for connecting to a network backbone, server, or server farm. The RJ45 ports operate at speeds of 10/100 Mbps and 1/2.5/10 Gbps. The SFP+ ports operate at speeds of 1/10 Gbps.

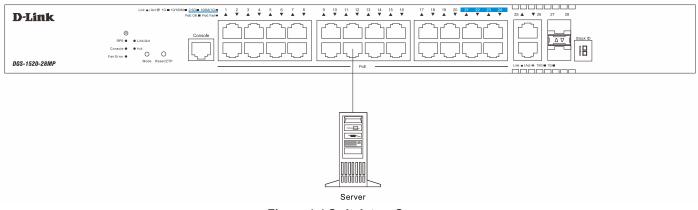


Figure 4-4 Switch to a Server

Switch to End Node

An end node is a generic name for edge networking devices that will be connected to this switch. Typical examples of end nodes are Personal Computers (PCs), Notebooks, Access Points, Print Servers, VoIP Phones and more. Each end node should be fitted with an RJ45 networking port. Normally, end nodes will connect to this switch by using a standard twisted-pair UTP/STP network cable. When a successful connection is established, the corresponding port light will illuminate and blink to indicate that network activity is taking place on that port.

The diagram below displays a typical end node connected to the Switch.

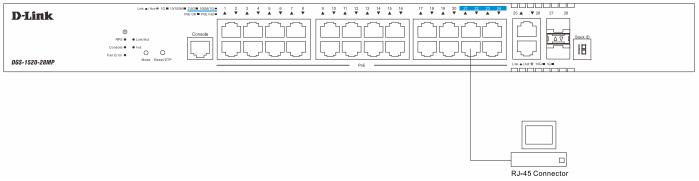


Figure 4-5 Switch to End Node

5. Switch Management

Management Options Command Line Interface (CLI) Web User Interface (Web UI) SNMP-based Management

Management Options

To configure, manage, and monitor the software features on the Switch, users can connect to the Command Line Interface (CLI), Web User Interface (Web UI), or through the means of third-party SNMP software.

Command Line Interface (CLI)

The CLI provides access to all of the software features available on the Switch. These features can be enabled, configured, disabled, or monitored by simply entering the appropriate command after the CLI prompt and pressing the Enter key. The Console port offers an Out-Of-Band (OOB) connection to the CLI and the LAN ports offers an in-band connection to the CLI using Telnet or SSH.



NOTE: For more information about the CLI, refer to the DGS-1520 Series CLI Reference Guide.

Connecting to the Console Port

The Console port is used to connect to the CLI of the Switch. Connect the DB9 connector of the console cable (included in the packaging) to the Serial (COM) port of the computer. Connect the RJ45 connector of the console cable to the Console port on the Switch.

To access the CLI through the Console port, *Terminal Emulation Software* must be used like *PuTTY* or *Tera Term*. The Switch uses a connection of **115200** bits per second with **no flow control** enabled.

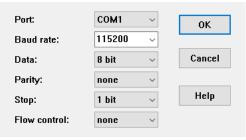


Figure 5-1 Console Connection Settings

After the boot sequence completed, the CLI login screen is displayed.



NOTE: The default username and password for the CLI and Web UI is admin.

Logging into the CLI

At the login screen, enter the Username and Password and press Enter after each entry to access the CLI.

```
DGS-1520-28MP Gigabit Ethernet Smart Managed Switch
Command Line Interface
Firmware: Build 1.00.018
Copyright(C) 2020 D-Link Corporation. All rights reserved.
User Access Verification
Username:admin
Password:****
```

Switch#



NOTE: For security reasons, it is highly recommended to configure a personal username and password for this Switch.

Creating a User Account

To create a new user account, use the username command in the Global Configuration Mode.

```
Switch# configure terminal
Switch(config)# username NewUser password 12345
Switch(config)# username NewUser privilege 15
Switch(config)#
```

A user account with the username 'NewUser', password '12345', and privilege level 15 was created.



NOTE: Usernames can be up to 32 characters in length. Passwords can be up to 32 plain-text characters in length. Passwords are case sensitive.

Configuring the IP Address

To configure the IP address of the Switch, use the ip address command in the VLAN Interface Configuration Mode.

```
Switch# configure terminal
Switch(config)# interface vlan 1
Switch(config-if)# ip address 10.50.50.50 255.0.0.0
Switch(config-if)#
```

The IP address of the Switch was change to '10.50.50.50' with the subnet mask of '255.0.0.0'.

Web User Interface (Web UI)

The Web UI, a graphical representation, provides access to most of the software features available on the Switch. These features can be enabled, configured, disabled, or monitored using any standard web browser, like Microsoft's Internet Explorer, Mozilla Firefox, Google Chrome, or Safari. The MGMT port offers an Out-Of-Band (OOB) connection to the Web UI and the LAN ports offers an in-band connection to the Web UI using HTTP or HTTPS (SSL).



NOTE: For more information about the Web UI, refer to the *DGS-1520 Series Web UI Reference Guide*.

Connecting to the Web UI

To access the Web UI, open a standard web browser, enter the IP address of the Switch into the address bar of the browser, and press the **Enter** key.

← → 🥖 http://10.90.90/	,Ω - ⊠ → X	<i>(</i> 10.90.90.90	×

Figure 5-2 IP address in Internet Explorer



NOTE: The default IP address of the switch is **10.90.90.90** (subnet mask 255.0.0.0). The default username and password is **admin**.

Logging into the Web UI

In the authentication window, enter the User Name and Password and click the Login button to access the Web UI.

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admin	
•••••	
English	
Login Reset	
	admin ••••• English

Figure 5-3 Web UI Login Window



NOTE: For security reasons, it is highly recommended to configure a personal username and password for this Switch.

Web Interface Navigation

After accessing the Web UI, the following will be displayed:

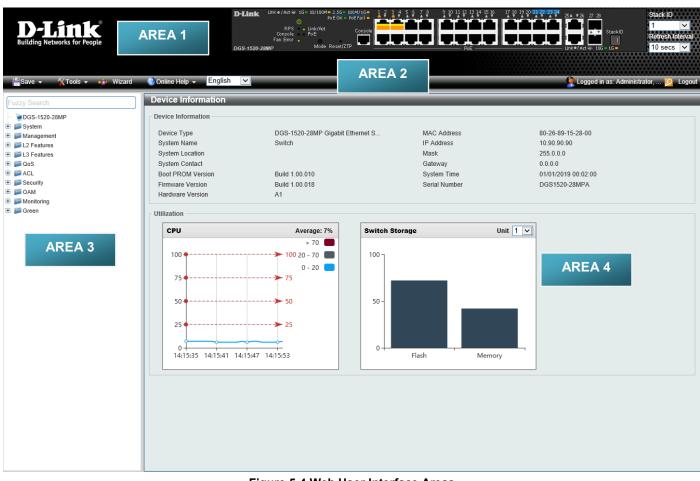


Figure 5-4 Web User Interface Areas

The Web UI is divided into four distinct areas that are described in the table below:

Area Number	Function
AREA 1	In this area, a graphical near real-time image of the front panel of the Switch is displayed with ports and expansion modules. Some management functions like port monitoring are also accessible here.
	Click the D-Link logo to go to the D-Link website.
AREA 2	In this area, a toolbar with access to functions like Save , Tools , Online Help , customized Language preferences, and a Logout option is available.
	The user account and IP address, currently accessing the Web UI, is displayed on the right in this toolbar.
AREA 3	In this area, the software features available in the Web UI are grouped into folders containing hyperlinks that will open window frames in Area 4.
	There is also a search option in this area that can be used to search for specific feature keywords in the Web UI to easily find the link to the set of features.
AREA 4	In this area, configuration and monitoring window frames are available based on the selections made in Area 3.

SNMP-based Management

The Switch can be managed with an SNMP-compatible console program. The Switch supports Simple Network Management Protocol (SNMP) versions 1, 2c, and 3. An SNMP agent decodes the incoming SNMP messages and responds to requests with MIB objects stored in the database. The SNMP agent updates the MIB objects to generate statistics and counters.

Connecting using SNMP

In SNMP versions 1 and 2c, user authentication is accomplished using *community strings*, which function like passwords. The remote user SNMP application and the Switch must use the same community string. SNMP packets from any station that were not authenticated are ignored (dropped).

The default community strings for the Switch are:

- public Allows authorized management stations to retrieve MIB objects.
- private Allows authorized management stations to retrieve and modify MIB objects.

SNMPv3 uses a more sophisticated authentication process that is separated into two parts. The first part is to maintain a list of users and their attributes that are allowed to act as SNMP managers. The second part describes what each user on that list can do as an SNMP manager.

The Switch allows groups of users to be listed and configured with a shared set of privileges. This SNMP version may also be set for a listed group of SNMP managers. Thus, a group of SNMP managers can be created to view read-only information or receive traps using SNMP version 1, while assigning a higher level of security to another group, granting read/write privileges using SNMP version 3.

Using SNMP version 3 individual users or groups of SNMP managers can be allowed to perform or be restricted from performing specific SNMP management functions. The functions that have been allowed or restricted are defined using the Object Identifier (OID) associated with a specific MIB. An additional layer of security is available for SNMP version 3 in that SNMP messages may be encrypted.

Traps

Traps are messages that are sent by an SNMP-enabled device to the Network Management Station (NMS) and can be used to alert network personnel of events that occur on the Switch. These events can be as serious, like a reboot (someone accidentally turned off the Switch), or less serious like a port status change. The Switch generates traps and sends them to a pre-configured IP address, usually an NMS. Typical traps include trap messages for Authentication Failure and Topology Change.

Management Information Base (MIB)

A MIB stores management and counter information. The Switch uses the standard MIB-II Management Information Base module. Consequently, values for MIB objects can be retrieved from any SNMP-based network management software. In addition to the standard MIB-II, the Switch also supports its own proprietary enterprise MIB as an extended Management Information Base. The proprietary MIB may also be retrieved by specifying the MIB Object Identifier. MIB values can be either read-only or read-write.

Appendix A - Technical Specifications

	Physical	Specificati	ions		
Feature	Description	Description			
Dimensions	DGS-1520-28	441 mm (V	V) x 207.4 r	mm (D) x 44 mm (H)	
	DGS-1520-28MP	441 mm (V	V) x 308.5 r	mm (D) x 44 mm (H)	
	DGS-1520-52	441 mm (V	V) x 207.4 r	mm (D) x 44 mm (H)	
	DGS-1520-52MP	441 mm (V	V) x 308.5 r	mm (D) x 44 mm (H)	
	All switch are 19-in	ch, 1 U Rac	k-mount siz	e	
Weight	DGS-1520-28	2.33 kg			
	DGS-1520-28MP	4.29 kg			
	DGS-1520-52	2.78 kg			
	DGS-1520-52MP	4.80 kg			
AC Power Supply	DGS-1520-28	100~240 \	/AC, 50~60	Hz, 0.8 A Max	
(Internal)	DGS-1520-28MP	100~240 \	/AC, 50~60	Hz, 5.5 A Max	
	DGS-1520-52	100~240 \	/AC, 50~60	Hz, 1.0 A Max	
	DGS-1520-52MP	100~240 \	/AC, 50~60	Hz, 6.0 A Max	
Redundant Power Supply	DGS-1520-28		•	n the MGMT port (HDBaseT) on the	
	DGS-1520-52	back panel. Supports the DPS-520.			
	DGS-1520-28MP	Optional RPS through the RPS port (22-pin) on the back			
	DGS-1520-52MP	panel. Supports the DPS-700.			
Fans	The IC Sensor detects the temperature on the switch automatically and adjusts the speed.				
	DGS-1520-28	1 fan			
	DGS-1520-28MP	4 fans			
	DGS-1520-52	2 fans			
	DGS-1520-52MP	4 fans			
Power Consumption	DGS-1520-28	100 VAC	-	30.4 Watts	
(Maximum)		240 VAC	-	30.2 Watts	
	DGS-1520-28MP	100 VAC	PoE On	810.2 Watts with RPS	
				452.3 Watts without RPS	
			PoE Off	44.2 Watts	
		240 VAC	PoE On	812.7 Watts with RPS	
				453.3 Watts without RPS	
			PoE Off	45.2 Watts	
	DGS-1520-52	100 VAC	-	50.7 Watts	
		240 VAC	-	51.2 Watts	
	DGS-1520-52MP	100 VAC	PoE On	908.2 Watts with RPS	
				479.5 Watts without RPS	
			PoE Off	66.3 Watts	

	Physical	Specificati	ons	
		240 VAC	PoE On	858.9 Watts with RPS
				455.6 Watts without RPS
			PoE Off	65.8 Watts
Power Consumption (Standby)	DGS-1520-28	100 VAC	-	20.9 Watts
		240 VAC	-	21.5 Watts
	DGS-1520-28MP	100 VAC	-	37.2 Watts
		240 VAC	-	37.3 Watts
	DGS-1520-52	100 VAC	-	25.5 Watts
		240 VAC	-	26.8 Watts
	DGS-1520-52MP	100 VAC	-	39.8 Watts
		240 VAC	-	40.7 Watts
MTBF	DGS-1520-28	468251.5 Hours (with AC power)		
	DGS-1520-28MP	333945.6 Hours (with AC power)		
	DGS-1520-52	364887.5 Hours (with AC power)		
	DGS-1520-52MP	328173.6 Hours (with AC power)		
Security Lock	Provides a Kensington-compatible security lock, on the rear panel of the Switch, to be able to connect to a secure immovable device. Insert the lock into the notch and turn the key to secure the lock. The lock-and-cable apparatus should be purchased separately			

Environment Specifications			
Feature	Description		
Temperature	Operating: -5°C to 50°C (23°F to 122°F) Storage: -40°C to 70°C (-40°F to 158°F)		
Humidity	Operating: 10 % to 95 % RH (non-condensing) Storage: 5 % to 95 % RH (non-condensing)		
Altitude	0 to 2000 meters (6562 feet) above sea level		

Performance Specification				
Feature	Description			
Switching Capacity	DGS-1520-28	128 Gbps		
	DGS-1520-28MP	140 Gbps		
	DGS-1520-52	176 Gbps		
	DGS-1520-52MP	188 Gbps		
MAC Address Table	Up to 16K entries (512 static MAC addresses)			
Transmission Method	Store and forward			
Packet Buffer	DGS-1520-28	2 MB		
	DGS-1520-28MP	2 MB		
	DGS-1520-52	2 MB (x2)		
	DGS-1520-52MP	2 MB (x2)		
Packet Forwarding Rate	DGS-1520-28	95.24 Mpps		
(Maximum)	DGS-1520-28MP	104.16 Mpps		

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Performance Specification				
	DGS-1520-52	130.95 Mpps		
	DGS-1520-52MP	139.88 Mpps		
Priority Queues	Supports the following:			
	Up to 8 Prior	ity Queues per port		
Physical Stacking	Supports the following: Physical stacking through the last 4 ports on the front panel Stacking configurations: 2-port 10GBASE-T, 2-port SFP+, or 4-port Linear/Ring bi-directional redundant stacking topologies Up to 40 Gbps or 80 Gbps full-duplex bandwidth Up to 8 physical units per stack Backup master for redundancy 			
Virtual Stacking	Inter-stacking trunking and mirroring			
(Clustering)	 Supports the following: D-Link Single IP Management (Version 1.6) Manage Up to 32 devices in a virtual stack with a single IP address 			

	Port T	ype Specifications			
Feature	Description	Description			
Console Port	The RJ45 console settings:	e port provides out-of-band access to the CLI using the following			
	Baud Rate	115200 (default), 19200, 38400, and 9600 bps			
	Data Bits	8			
	Stop Bit	1			
	Parity	None			
	Flow Control	None			
RJ45 Ports		et ports provides in-band access to the CLI and Web UI, s, and support the following standards and features:			
	Standards	IEEE 802.3 (10BASE-T)			
		IEEE 802.3u (100BASE-TX)			
		IEEE 802.3ab (1000BASE-T)			
		IEEE 802.3bz (2.5GBASE-T) (28MP/52MP Only)			
		IEEE 802.3an (10GBASE-T)			
		IEEE 802.3az (Energy-Efficient Ethernet)			
		IEEE 802.3x (Full-Duplex, Flow Control)			
	The following feat	The following features are supported on the RJ45 ports:			
	Half/Full-Du				
	Back Press	ure for Half-Duplex mode			
	Head-of-lin	e blocking prevention			
	Manual/aut	o MDI/MDIX configuration			
		Auto-Negotiation for each port			
SFP+ Ports	eiver ports provides in-band access to the CLI and Web UI, segments, and support the following standards and features:				
	Standards	IEEE 802.3z (1000BASE-X)			
		IEEE 802.3ah (1000BASE-BX10)			
IEEE 802.3ae (10GBASE-R)					

	Port Type Specifications						
	All SFP+ port are backwards compatible to support SFP transceivers. For the full list of D-Link transceivers that are supported on the Switch, refer to the Supported SFP/SFP+ Transceivers table on page 33.						
PoE Ports (DGS-1520-28MP/52MP Only)			e front panels c ples connecting			PDs with DC power	
	Standards			•	wer over Ethernet, wer over Ethernet,	,	
	The followin	g feature	s are supporte	d on	the PoE ports:	,	
	Autor	natically i	••	PD	connection and imr	nediately provides	
					ort(s) with a current oltage output of 44	over 350/600 mA for 4/50 V	
		natically o ction feat		he po	ort(s) with a short u	sing the Active Circuit	
					v, Medium, and Hig		
			s-port current le mination circu		ge in a multi-port s	ystem with DC isolation	
	The followin	g classifi	cations apply t	o IEE	EE 802.3af/at-capa	ble devices:	
	Class	Usage			Guaranteed Output Power By PSE		
	0	Default			15.4 Watt		
	1	Optiona	l		4.0 Watt		
	2	Optiona	l	7.0 Watt			
	3	Optiona	l		15.4 Watt		
	4	Optiona	ll (802.3at Only	y)	30 Watt		
		-	budget is 370 budget with ar		s. S (DPS-700) is 740) Watts.	
MGMT Port (DGS-1520-28/52 Only)					/eb, and SNMP acc IDBaseT power to		
	StandardsPower over HDBaseT (PoH) IEEE 802.3 (10BASE-T) IEEE 802.3u (100BASE-TX) IEEE 802.3ab (1000BASE-T) IEEE 802.3x (Full-Duplex, Flow Control)						
	The followin	g classifi	cations apply t	o HD	BaseT-capable de	vices:	
	Classificati	on		_	E Guaranteed tput Power	PD Maximum Input Power	
	4 (4-pair) De	efault Typ	e 4	90	Watt	71 Watt	

Supported SFP/SFP+ Transceivers						
SFP Fiber Transceivers						
Product Code Standard Mode Distance TX RX						
DEM-310GT	DEM-310GT 1000BASE-LX Single-mode 10 km 1310 nm					
DEM-311GT	DEM-311GT 1000BASE-SX Multi-mode 550 m 850 nm					
DEM-312GT2	DEM-312GT2 1000BASE-SX Multi-mode 2 km 1310 nm					
DEM-314GT	1000BASE-LHX	Single-mode	50 km	1550) nm	

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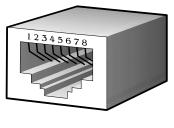
Supported SFP/SFP+ Transceivers							
DEM-315GT	1000BASE-ZX	Single-mode	80 km		1550) nm	
	SFP	+ Fiber Transce	ivers				
Product Code	<u>Standard</u>	<u>Mode</u>	<u>Distance</u>	<u>TX</u>			<u>RX</u>
DEM-431XT	10GBASE-SR	Multi-mode	300 m		850	nm	
DEM-432XT	10GBASE-LR	Single-mode	10 km		1310) nm	
DEM-433XT	10GBASE-ER	Single-mode	40 km		1550) nm	
DEM-434XT	10GBASE-ZR	Single-mode	80 km		1550) nm	
	SFP	Copper Transce	ivers				
Product Code	<u>Standard</u>	<u>Connector</u>	<u>Distance</u>	TX/RX	Po	wer	<u>Amps</u>
DGS-712	1000BASE-T	SFP to RJ45	100 m	-	3.	3 V	375 mA
	WDM (BiDi) SFP Trans	ceivers				
Product Code	<u>Standard</u>	<u>Mode</u>	<u>Distance</u>	<u>TX</u>			<u>RX</u>
DEM-330T	1000BASE-BX-D	Single-mode	10 km	1550 nn	n	1:	310 nm
DEM-330R	1000BASE-BX-U	Single-mode	10 km	1310 nm 1550 nm		550 nm	
DEM-331T	1000BASE-BX-D	Single-mode	40 km	1550 nn	n	1:	310 nm
DEM-331R	1000BASE-BX-U	Single-mode	40 km	1310 nn	n	1	550 nm
	WDM (E	BiDi) SFP+ Trans	sceivers				
Product Code	<u>Standard</u>	<u>Mode</u>	<u>Distance</u>	<u>TX</u>			<u>RX</u>
DEM-436XT-BXD	10GBASE-LR	Single-mode	20 km	1330 nn	n	12	270 nm
DEM-436XT-BXU	10GBASE-LR	Single-mode	20 km	1270 nn	n	1:	310 nm
	SFP+ Dire	ect Attached Cal	oles (DAC)				
Product Code	<u>Standard</u>	<u>Cable</u>	<u>Dist.</u>	<u>Wire</u>	9	Ω	<u>Amps</u>
DEM-CB100S	10G SFP+	Twinaxial	1 m	30 AWG	10	0 Ω	0.5 A
DEM-CB300S	10G SFP+	Twinaxial	3 m	30 AWG	10	0 Ω	0.5 A
DEM-CB700S	10G SFP+	Twinaxial	7 m	30 AWG	10	0 Ω	0.5 A

Certifications					
EMC Certifications CE Class A, FCC Class A, VCCI Report Class A, C-Tick Report Class A, BSMI					
Safety Certifications	UL Mark (62368-1), CB Report (IEC60950-1), CB Report (IEC62368-1), LVD Report (62368-1), BSMI				

Appendix B - Cables and Connectors

Ethernet Cable

When connecting the Switch to another switch, a bridge, or hub, a straight-through Category 5/5e/6a/7 cable is necessary. The following diagrams and tables show the standard RJ45 receptacle/connector and their pin assignments.



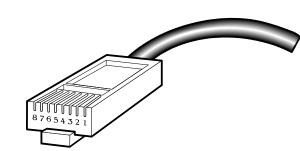


Figure B-1 Standard RJ45 port and connector

RJ45 Pin Assignment:

Contact	MDI-X Port	MDI-II Port
1	RD+ (receive)	TD+ (transmit)
2	RD - (receive)	TD - (transmit)
3	TD+ (transmit)	RD+ (receive)
4	1000BASE-T/10GBASE-T	1000BASE-T/10GBASE-T
5	1000BASE-T/10GBASE-T	1000BASE-T/10GBASE-T
6	TD - (transmit)	RD- (receive)
7	1000BASE-T/10GBASE-T	1000BASE-T/10GBASE-T
8	1000BASE-T/10GBASE-T	1000BASE-T/10GBASE-T

Console Cable

A console cable is used to connect to the RJ45 console port of the Switch to access the command line interface. The following diagram and table show the standard RJ45 to RS-232cable and pin assignments.

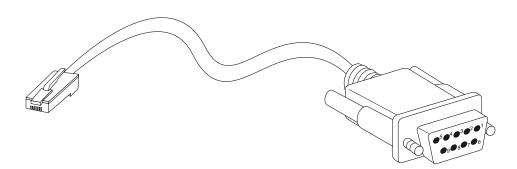


Figure B-2 Console to RJ45 Cable

RJ45 to RS-232 Cable Pin Assignment Table:

Contact	Console (DB9/RS232)	RJ45	
1	Not Used	Not Used	
2	RXD	Not Used	
3	TXD	TXD	
4	Not Used	GND	
5	GND (shared)	GND	
6	Not Used	RXD	
7	Not Used	Not Used	
8	Not Used	Not Used	

Redundant Power Supply (RPS) Cable

When connecting the Switch to a Redundant Power Supply, an RPS cable is necessary. The following diagram and table show the standard RPS receptacle/connector and their pin assignments.

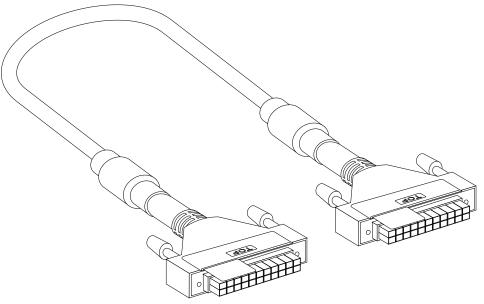


Figure B-3 RPS 22-pin DC Power Cable

RPS 22-pin	DC Power	Cable Pin	Assignment Table:
	201010		

Pin	Switch	RPS
1	-54Vrtn	-54Vrtn
2	-54V	-54V
3	+12V	+12V
4	+12V	+12V
5	+12V	+12V
6	+12V	+12V
7	NC/GND	GND
8	+12Ven	+12Ven
9	LS-54V	LS-54V
10	-54V	-54V
11	-54Vrtn	-54Vrtn
12	GND	NC/GND
13	GND	GND
14	RPS Present	Status_2
15	Status_1	RPS PG
16	Status_2	RPS Present
17	RPS PG	Status_1
18	GND	GND
19	+12VRTNsen	+12VRTNsen
20	LS+12V	LS+12V
21	-54Vsen	-54Vsen
22	-54VRTNsen	-54VRTNsen

Appendix C - ERPS Information

Only hardware-based ERPS supports the Fast Link Drop Interrupt feature with a recovery time of 50 milliseconds in a 16-node ring. The distance must be less than 1200 kilometers.

Model Name	ERPS	Port 1 to 8	Port 9 to 26	Port 27 to 28
DGS-1520-28	Hardware-based	V		V
	Software-based		V	

Model Name	ERPS	Port 1 to 4	Port 5 to 26	Port 27 to 28
DGS-1520-28MP	Hardware-based	V		V
	Software-based		V	

Model Name	ERPS	Port 1 to 8	Port 9 to 24	Port 25 to 32	Port 33 to 50	Port 51 to 52
DGS-1520-52	Hardware-based	V		V		V
	Software-based		V		V	

Model Name	ERPS	Port 1 to 8	Port 9 to 24	Port 25 to 28	Port 29 to 50	Port 51 to 52
DGS-1520-52MP	Hardware-based	V		V		V
	Software-based		V		V	

Safety/Sécurité

Safety Instructions Consignes de sécurité General Precautions for Rack-Mountable Products Protecting Against Electrostatic Discharge

Safety Instructions

Please pay careful attention to the following safety guidelines to ensure your own personal safety and to help protect your system from potential damage.

Safety Cautions

To greatly reduce the risk of physical injury, electrical shock, fire, and damage to equipment, observe the following precautions.

Observe and follow service markings.

- Do not attempt to service any product, except when it is explained in the system's documentation.
- Opening or removing covers, marked with a high voltage sign, may expose the user to electrical shock.
- Only a trained service technician should service components inside these compartments.

If any of the following conditions occur, unplug the product from the electrical outlet and replace the part or contact your trained service provider:

- Damage to the power cable, extension cable, or plug.
- An object has fallen into the product.
- The product has been exposed to water.
- The product has been dropped or damaged.
- The product does not operate correctly when the operating instructions are correctly followed.

General safety cautions:

- Electrical Hazard: Only qualified personnel should perform installation procedures.
- Before servicing, disconnect all power cords to remove power from the device.
- Keep the system away from radiators and heat sources. Also, do not block cooling vents.
- Do not spill food or liquids on system components, and never operate the product in a wet environment. If the system gets wet, contact your trained service provider.
- Do not push any objects into the openings of the system. Doing so can cause fire or electric shock by shorting out interior components.
- Only use this product with approved equipment.
- Allow the product to cool before removing the cover or touching internal components.
- Operate the product only from the type of external power source indicated on the electrical ratings label. If unsure of the type of power source required, consult your service provider or local power company.
- Be sure that attached devices are electrically rated to operate with the power available in your location.
- Use only approved power cable(s). If you have not been provided with a power cable for your system or for any AC-powered option intended for your system, purchase a power cable that is approved for use in your country. The power cable must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cable should be greater than the ratings marked on the product.
- To help prevent electric shock, plug the system and peripheral power cables into properly grounded electrical outlets. These cables are equipped with three-prong plugs to help ensure proper grounding. Do not use adapter plugs or remove the grounding prong from a cable. If using an extension cable is necessary, use a 3-wire cable with properly grounded plugs.

- Observe the extension cable and power strip ratings. Make sure that the total ampere rating of all products
 plugged into the extension cable or power strip does not exceed 80 percent of the ampere ratings limit for the
 extension cable or power strip.
- To help protect the system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- Position system cables and power cables carefully. Route cables so that they cannot be stepped on or tripped over. Be sure that nothing rests on any cables.
- Do not modify power cables or plugs. Consult a licensed electrician or your power company for site modifications. Always follow your local or national wiring rules.

When connecting or disconnecting power to and from hot-pluggable power supplies, observe the following guidelines:

- Install the power supply before connecting the power cable to the power supply.
- Unplug the power cable before removing the power supply.
- If the system has multiple sources of power, disconnect power from the system by unplugging all power cables from the power supplies.
- Move products with care and ensure that all casters and stabilizers are firmly connected to the system. Avoid sudden stops and uneven surfaces.

To help avoid damage to the system, be sure that the voltage selection switch, on the power supply, is set to match the power available at the Switch's location:

- 115V/60Hz is used mostly in North and South America as well as Far Eastern countries like as South Korea and Taiwan
- 100V/50Hz is used mostly in Eastern Japan and 100V/60Hz in Western Japan
- 230V/50Hz is used mostly in Europe, the Middle East, Africa and the Far East

Consignes de sécurité

Veuillez prêter une attention particulière aux consignes de sécurité suivantes pour assurer votre sécurité personnelle et protéger votre système des dommages potentiels.

Précautions de sécurité

Pour réduire considérablement les risques de blessure physique, de choc électrique, d'incendie et de détérioration du matériel, observez les précautions suivantes.

Observez et respectez les marquages relatifs à l'entretien et/ou aux réparations.

- N'essayez pas de réparer un produit, sauf si cela est expliqué dans la documentation du système.
- L'ouverture ou le retrait des capots, signalés par un symbole de haute tension, peut exposer l'utilisateur à un choc électrique.
- Seul un technicien de maintenance qualifié est habilité à réparer les composants à l'intérieur de ces compartiments.

Si l'un des cas suivants se produit, débranchez l'appareil du secteur et remplacez la pièce concernée ou contactez votre prestataire de services agréé.

- Endommagement du câble d'alimentation, du câble de rallonge ou de la fiche.
- Un objet est tombé dans le produit.
- Le produit a été exposé à l'eau.
- Le produit est tombé ou a été endommagé.
- Le produit ne fonctionne pas correctement lorsque les instructions d'utilisation sont correctement suivies.

Précautions générales de sécurité:

• Danger électrique: Seul le personnel qualifié doit effectuer les procédures d'installation.

- Avant de procéder à l'entretien, débranchez tous les cordons d'alimentation pour mettre le périphérique hors tension.
- Eloignez le système des radiateurs et des sources de chaleur. Par ailleurs, n'obturez pas les fentes d'aération.
- Ne versez pas de liquide sur les composants du système et n'introduisez pas de nourriture à l'intérieur. Ne faites jamais fonctionner l'appareil dans un environnement humide. Si le système est mouillé, contactez votre prestataire de services qualifié.
- N'insérez aucun objet dans les fentes de l'appareil. Vous risqueriez de provoquer un incendie ou un choc électrique en court-circuitant les composants internes.
- Utilisez ce produit uniquement avec un équipement approuvé.
- Laissez l'appareil refroidir avant de déposer le capot ou de toucher les composants internes.
- Faites fonctionner le produit uniquement avec la source d'alimentation indiquée sur l'étiquette signalétique où figurent les caractéristiques électriques nominales. Si vous ne savez pas avec certitude quel type de source d'alimentation est requis, consultez votre prestataire de services ou votre compagnie d'électricité.
- Assurez-vous que les caractéristiques nominales des appareils branchés correspondant à la tension du réseau électrique.
- Utilisez uniquement des câbles d'alimentation homologués. Si un câble d'alimentation n'est pas fourni pour le système ou pour un composant/accessoire alimenté par CA destiné au système, procurez-vous un câble d'alimentation homologué pour une utilisation dans votre pays. Le câble d'alimentation doit être adapté à l'appareil et ses caractéristiques nominales doivent correspondre à celles figurant sur l'étiquette du produit. La tension et le courant nominaux du câble doivent être supérieurs aux valeurs nominales indiquées sur l'appareil.
- Pour éviter tout risque de choc électrique, branchez les câbles d'alimentation du système et des périphériques à des prises électriques correctement mises à la masse. Ces câbles sont équipés de fiches à trois broches pour garantir une mise à la masse appropriée. N'utilisez pas d'adaptateur de prise, et n'éliminez pas la broche de mise à la masse du câble. Si un câble de rallonge est nécessaire, utilisez un câble à 3 fils avec des fiches correctement mises à la terre.
- Respectez les caractéristiques nominales de la rallonge ou du bloc multiprise. Assurez-vous que l'intensité nominale totale de tous les produits branchés à la rallonge ou au bloc multiprise ne dépasse pas 80 % de l'intensité nominale limite de la rallonge ou du bloc multiprise.
- Pour protéger le système contre les pics et les chutes de tension transitoires et soudains, utilisez un parasurtenseur, un filtre de secteur ou une alimentation sans interruption (ASI).
- Positionnez les câbles système et les câbles d'alimentation avec soin. Acheminez les câbles de manière à ce qu'ils ne puissent pas être piétinés ou trébuchés. Veillez à ce que rien ne repose sur les câbles.
- Ne modifiez pas les câbles ou les fiches d'alimentation. Contactez un électricien qualifié ou la compagnie d'électricité si des modifications sur site sont nécessaires. Respectez toujours la règlementation locale ou nationale en matière de câblage.

Lors de la connexion ou de la déconnexion de l'alimentation vers et depuis des blocs d'alimentation enfichables à chaud, respectez les consignes suivantes:

- Installez l'alimentation avant d'y brancher le câble d'alimentation.
- Débranchez le câble d'alimentation avant de couper l'alimentation.
- Si le système possède plusieurs sources d'alimentation, mettez-le hors tension en débranchant tous les câbles d'alimentation des prises.
- Déplacez les appareils avec précaution et assurez-vous que les roulettes et/ou que les pieds stabilisateurs sont bien fixés au système. Évitez les arrêts brusques et les surfaces inégales.

Pour éviter d'endommager le système, assurez-vous que le commutateur de sélection de tension de l'alimentation est réglé sur l'alimentation disponible à l'emplacement du commutateur:

- 115 V/60 Hz est principalement utilisé en Amérique du Nord et du Sud, ainsi que dans des pays d'Extrême-Orient tels que la Corée du Sud et Taïwan.
- 100 V/50 Hz est utilisé principalement dans l'est du Japon et 100 V/ 60 Hz dans l'ouest du Japon.
- 230 V/50 Hz est principalement utilisé en Europe, au Moyen-Orient, en Afrique et en Extrême-Orient.

General Precautions for Rack-Mountable Products

Please pay careful attention to the following precautions concerning rack stability and safety. Systems are considered to be components in a rack. Thus, a component refers to any system, as well as to various peripherals or supporting hardware:



CAUTION: Installing systems in a rack without the front and side stabilizers installed could cause the rack to tip over, potentially resulting in bodily injury under certain circumstances. Therefore, always install the stabilizers before installing components in the rack. After installing system/components in a rack, never pull more than one component out of the rack on its slide assemblies at one time. The weight of more than one extended component could cause the rack to tip over and may result in serious injury.



- ATTENTION: Le montage de systèmes sur un rack dépourvu de pieds stabilisateurs avant et latéraux peut faire basculer le rack, pouvant causer des dommages corporels dans certains cas. Par conséquent, installez toujours les pieds stabilisateurs avant de monter des composants sur le rack. Après l'installation d'un système ou de composants dans un rack, ne sortez jamais plus d'un composant à la fois hors du rack sur ses glissières. Le poids de plusieurs composants sur les glissières en extension peut faire basculer le rack, pouvant causer de graves dommages corporels.
- Before working on the rack, make sure that the stabilizers are secured to the rack, extended to the floor, and that the full weight of the rack rests on the floor. Install front and side stabilizers on a single rack or front stabilizers for joined multiple racks before working on the rack.
- Always load the rack from the bottom up, and load the heaviest item in the rack first.
- Make sure that the rack is level and stable before extending a component from the rack.
- Use caution when pressing the component rail release latches and sliding a component into or out of a rack; the slide rails can pinch your fingers.
- After a component is inserted into the rack, carefully extend the rail into a locking position, and then slide the component into the rack.
- Do not overload the AC supply branch circuit that provides power to the rack. The total rack load should not exceed 80 percent of the branch circuit rating.
- Ensure that proper airflow is provided to components in the rack.
- Do not step on or stand on any component when servicing other components in a rack.



CAUTION: Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if uncertain that suitable grounding is available.



ATTENTION: Ne neutralisez jamais le conducteur de masse et ne faites jamais fonctionner le matériel en l'absence de conducteur de masse dûment installé. Contactez l'organisme de contrôle en électricité approprié ou un électricien qualifié si vous n'êtes pas sûr qu'un système de mise à la masse adéquat soit disponible.



CAUTION: The system chassis must be positively grounded to the rack cabinet frame. Do not attempt to connect power to the system until grounding cables are connected. Completed power and safety ground wiring must be inspected by a qualified electrical inspector. An energy hazard will exist if the safety ground cable is omitted or disconnected.



ATTENTION: La carcasse du système doit être positivement reliée à la masse du cadre du rack. N'essayez pas de mettre le système sous tension si les câbles de mise à la masse ne sont pas raccordés. Le câblage de l'alimentation et de la mise à la masse de sécurité doit être inspecté par un inspecteur qualifié en électricité. Un risque électrique existe si le câble de mise à la masse de sécurité est omis ou débranché.

Protecting Against Electrostatic Discharge

Static electricity can harm delicate components inside the system. To prevent static damage, discharge static electricity from your body before touching any of the electronic components, such as the microprocessor. This can be done by periodically touching an unpainted metal surface on the chassis.

The following steps can also be taken prevent damage from electrostatic discharge (ESD):

- When unpacking a static-sensitive component from its shipping carton, do not remove the component from the antistatic packing material until ready to install the component in the system. Just before unwrapping the antistatic packaging, be sure to discharge static electricity from your body.
- When transporting a sensitive component, first place it in an antistatic container or packaging.
- Handle all sensitive components in a static-safe area. If possible, use antistatic floor pads, workbench pads and an antistatic grounding strap.

D-Link Building Networks for People

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

Limited Warranty: D-Link warrants that the hardware portion of the D-Link product described below ("Hardware") will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below ("Warranty Period"), except as otherwise stated herein.

Limited Lifetime Warranty for the product is defined as follows:

- Hardware: For as long as the original customer/end user owns the product, or five (5) years after product discontinuance, whichever occurs first (excluding power supplies and fans)
- Power supplies and fans: Three (3) Year
- Spare parts and spare kits: Ninety (90) days

The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Software Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty: The Limited Warranty provided hereunder for Hardware and Software portions of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim: The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient
 detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product)
 if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving
 any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA")
 number by completing the RMA form and entering the assigned Case ID Number at https://ma.dlink.com/.
- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it
 will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or
 accessories in the shipping package. D-Link will only replace the defective portion of the product and will not ship back any accessories.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer.

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered: The Limited Warranty provided herein by D-Link does not cover: Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

Disclaimer of Other Warranties: EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT. Limitation of Liability: TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NON-CONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS, IMPLIED ON STATUTORY.

Governing Law: This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

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CE Mark Warning: This is a Class A product. In a residential environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. Operation of this equipment in a residential environment is likely to cause harmful interference to radio or television reception. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Product Registration

Register your D-Link product online at <u>http://support.dlink.com/register/</u> Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

Technical Support

U.S. and Canadian customers

This guide is only for initial configuration. Please refer to the user manual to learn more or visit http://www.mydlink.com for more information. Also feel free to contact us. U.S. and Canadian customers can contact D-Link Technical Support through our website.

> **USA** http://support.dlink.com

Canada http://support.dlink.ca

Europe customers

TECHNICAL SUPPORT	
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SUPORT TEHNIC	
ТЕХНИЧЕСКА ПОДДРЪЖКА	
TECHNICKÁ PODPORA	

Australia customers

Tel: 1300-700-100 24/7 Technical Support Web: http://www.dlink.com.au E-mail: support@dlink.com.au

India customers

Tel: +91-832-2856000 or 1860-233-3999 Web: www.dlink.co.in E-Mail: helpdesk@in.dlink.com

Singapore, Thailand, Indonesia, Malaysia, Philippines, Vietnam customers

Singapore - www.dlink.com.sg Thailand - www.dlink.co.th Indonesia - www.dlink.co.id Malaysia - www.dlink.com.my Philippines - www.dlink.com.ph Vietnam - www.dlink.com.vn

Korea customers

Tel : 1899-3540 Monday to Friday 9:30am to 6:30pm Web : http://d-link.co.kr E-mail : support@kr.dlink.com

New Zealand customers

Tel: 0800-900-900 24/7 Technical Support Web: http://www.dlink.co.nz E-mail: support@dlink.co.nz

South Africa and Sub Sahara Region customers

Tel: +27 12 661 2025 08600 DLINK (for South Africa only) Monday to Friday 8:30am to 9:00pm South Africa Time Web: http://www.d-link.co.za E-mail: support@za.dlink.com

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Техническая Поддержка

Обновления программного обеспечения и документация доступны на Интернет-сайте D-Link.

D-Link предоставляет бесплатную поддержку для клиентов в течение гарантийного срока.

Клиенты могут обратиться в группу технической поддержки D-Link по телефону или через Интернет.

Техническая поддержка компании D-Link работает в круглосуточном режиме ежедневно, кроме официальных праздничных дней. Звонок бесплатный по всей России.

Техническая поддержка D-Link:

8-800-700-5465

Техническая поддержка через Интернет:

http://www.dlink.ru

e-mail: support@dlink.ru

Изготовитель:

Д-Линк Корпорейшн, 114, Тайвань, Тайпей, Нэйху Дистрикт, Шинху 3-Роуд, № 289

Уполномоченный представитель, импортер:

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390043, г.Рязань, пр. Шабулина, д.16

Тел.: +7 (4912) 503-505

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Türkiye Uphill Towers Residence A/99 Ataşehir /ISTANBUL Tel: +90 (216) 492-99-99 Email: info.tr@dlink.com.tr

ישראל

20 רח המגשימים קרית מטלון פתח תקווה 072-2575555 support@dlink.co.il

Soporte Técnico Para Usuarios En Latino America

Por favor revise el número telefónico del Call Center de su país en http://www.dlinkla.com/soporte/call-center

Soporte Técnico de D-Link a través de Internet

Horario de atención Soporte Técnico en www.dlinkla.com e-mail: soporte@dlinkla.com & consultas@dlinkla.com

Clientes de Brasil

Caso tenha dúvidas na instalação do produto, entre em contato com o Suporte Técnico D-Link.

Acesse o site: www.dlink.com.br/suporte

D-Link 友訊科技 台灣分公司 技術支援資訊

如果您還有任何本使用手冊無法協助您解決的產品相關問題,台灣、香港或是澳門用戶 可至網站、電子郵件或電話等方式與D-Link技術支援工程師聯絡。

台灣D-Link免付費技術諮詢專線

台灣技術諮詢服務專線 0800-002-615 台灣手機付費電話 (02) 6600-0123#8715 台灣網站: http://www.dlink.com.tw 台灣電子郵件: dssqa_service@dlink.com.tw 產品保固期限、台灣技術諮詢時間、維修據點查詢,請參考http://www.dlink.com.tw 網頁 說明

香港、澳門D-Link技術諮詢專線 香港技術諮詢服務專線 (852) 8100 8892 香港網站: http://www.dlink.com.hk 香港電子郵件: service@cn.synnex-grp.com 香港、澳門維修據點查詢請參考http://www.dlink.com.hk/contact.html 網頁說明。

如果您是其他地區的用戶,請參考D-Link網站www.dlink.com 查詢全球各地分公司的聯絡 資訊以取得相關支援服務。



^{立即掃描QR code} 了解更多 服務資訊

Pelanggan Indonesia

Update perangkat lunak dan dokumentasi pengguna dapat diperoleh pada situs web D-Link.

Dukungan Teknis untuk pelanggan: Tel: 0800-14014-97 (Layanan Bebas Pulsa)

Dukungan Teknis D-Link melalui Internet: Pertanyaan Umum: sales@id.dlink.com Bantuan Teknis: support@id.dlink.com Website : http://www.dlink.co.id

日本のお客様

この度は弊社製品をお買い上げいただき、誠にありがとうございます。

製品に同梱されている保証書の購入元にお問い合わせください。

中国客户

技术支持中心电话:

400-629-6688(家用産品热线) 4006-828-828(企业産品热线)

技术支持中心邮箱:dlink400@cn.dlink.com

各地维修中心地址请登录官方网站查询

网址:http://www.dlink.com.cn

400电话工作时间:工作日9:00-19:00;节假日9:00-18:00

Registration Card All Countries and Regions Excluding USA

Print, type or use block letters.
Your name: Mr./Ms
Organization:
Your title at organization:

Fax:

Dept. _____

Organization's full address:

Fax:

Country: _

Telephone:

Date of purchase (Month/Day/Year):

Product Model	Product Serial No.	* Product installed in type of computer	* Product installed in computer serial No.

Product was purchased from:

Reseller's name:

Telephone:

Answers to the following questions help us to support your product:

- 1. Where and how will the product primarily be used? □Home □Office □Travel □Company Business □Home Business □Personal Use
- 2. How many employees work at installation site? □1 employee □2-9 □10-49 □50-99 □100-499 □500-999 □1000 or more
- 3. What network protocol(s) does your organization use ?
- 4. What network operating system(s) does your organization use ?
 D-Link LANsmart DNovell NetWare DNetWare Lite DSCO Unix/Xenix DPC NFS D3Com 3+Open DCisco Network
 DBanyan Vines DDECnet Pathwork DWindows NT DWindows 98 DWindows 2000/ME DWindows XP
 DOthers
- 5. What network management program does your organization use ?
 D-View DHP OpenView/Windows DHP OpenView/Unix DSunNet Manager DNovell NMS
 NetView 6000 DOthers_____
- 6. What network medium/media does your organization use ? □Fiber-optics □Thick coax Ethernet □Thin coax Ethernet □10BASE-T UTP/STP □100BASE-TX □1000BASE-T □Wireless 802.11b and 802.11g □wireless 802.11a □Others_____
- 7. What applications are used on your network? Desktop publishing DSpreadsheet DWord processing DCAD/CAM Database management DAccounting DOthers_____
- 8. What category best describes your company? □Aerospace □Engineering □Education □Finance □Hospital □Legal □Insurance/Real Estate □Manufacturing □Retail/Chain store/Wholesale □Government □Transportation/Utilities/Communication □VAR □System house/company □Other_____
- 9. Would you recommend your D-Link product to a friend? □Yes □No □Don't know yet
- 10. Your comments on this product?

(* Applies to adapters only)

