



Hardware Installation Guide

Layer 3 Stackable Managed Switch

DXS-3410 Series

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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.

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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.

Table of Contents

Intended Readers	v
Typographical Conventions	v
Notes and Cautions.....	v
1. Introduction.....	1
Switch Description	1
Switch Series	1
Package Contents.....	1
2. Hardware Components	2
Front Panel Components	2
Front Panel LED Indicators	3
Rear Panel Components	5
Side Panel Components.....	6
3. Installation.....	7
Installation Guidelines	7
Installing the Switch without a Rack.....	7
Installing the Switch in a Standard 19" Rack.....	8
Installing Transceivers into the Transceiver Ports	9
Connecting AC Power to the Switch	10
Installing the AC Power Cord Retainer	10
Installing the Redundant Power Supply (RPS).....	12
Connecting the DPS-500A RPS to the Switch	12
4. Switch Connections.....	14
Stacking the Switch.....	14
Switch to Switch.....	17
Switch to End Node.....	17
5. Switch Management.....	19
Management Options.....	19
Command Line Interface (CLI)	19
Connecting to the Console Port.....	19
Logging into the CLI.....	20
Configuring the IP Address.....	20
Web User Interface (Web UI)	21
Connecting to the Web UI	21
Logging into the Web UI.....	21
SNMP-based Management	23
Connecting using SNMP	23
Traps	23
Management Information Base (MIB)	23
Appendix A - Technical Specifications	24
Appendix B - Cables and Connectors	28
Ethernet Cable.....	28
Console Cable	29
Appendix C - ERPS Information	30
Safety/Sécurité	31
Safety Instructions	31
Safety Cautions.....	31
Consignes de sécurité.....	32

Précautions de sécurité	32
General Precautions for Rack-Mountable Products	34
Protecting Against Electrostatic Discharge	35
Warranty & Technical Support	36

Intended Readers

This guide provides comprehensive information regarding the hardware specifications of the switches in this series. It offers concise instructions on configuring and managing switches within this series. This manual is designed for advanced-level users who possess familiarity with network management concepts and terminology. For practical purposes, all switches within this series will be consistently referred to as the "Switch" throughout this manual.

Typographical Conventions

Convention	Description
Boldface Font	This convention is used to emphasize keywords. It also denotes a button, toolbar icon, menu, or menu items. 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

Introducing the DXS-3410 series, D-Link's latest evolution of Managed switches. This series offers an extensive range of port types and speeds, facilitating seamless interconnection among diverse networking devices for effective communication. Leveraging SFP28 and SFP+ ports with fiber-optic cabling, these switches enable high-performing uplink connections, bridging considerable distances.

Moreover, the DXS-3410 series incorporates D-Link's forward-thinking third-generation Green Ethernet technology (IEEE 802.3az). This innovation conserves power by deactivating LEDs according to a personalized schedule for inactive links and by allowing ports to autonomously enter a hibernated state. This intelligent approach ensures efficiency and sustainability.

Switch Series

The following switches are part of the **DXS-3410 series**:

- **DXS-3410-32XY** - A stackable Layer 3 managed switch with 24 x 10GbE RJ45 ports, 4 x 10GbE SFP+ ports, and 4 x 25GbE SFP28 ports.
- **DXS-3410-32SY** - A stackable Layer 3 managed switch with 28 x 10GbE SFP+ ports and 4 x 25GbE SFP28 ports.

Package Contents

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

- One DXS-3410 series switch
- One AC power cord
- One AC power cord retainer set
- One RJ45 to RS-232 console cable
- 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

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

Port	Description
Reset/ZTP	The Reset button can be used to (1) reboot the switch, (2) start the ZTP function, or (3) reset the switch to its factory default settings depending on how long this button is pressed. Zero-Touch Provisioning (ZTP) is an automated network deployment and configuration process that eliminates manual intervention by allowing devices to be discovered, provisioned, and configured automatically upon connection to the network.
	Push Time
	Description
	< 5 sec
	The Switch reboots after the button is released.
	5 to 10 sec
	All green LEDs on the ports remain continuously lit before the button is released. Once the button is released, the LEDs change to a blinking state, initiating the ZTP function, and then the device reboots.
	> 10 sec
	All amber LEDs on the ports stay continuously lit before the button is released. After the button is released, the Switch will reboot and reset the system to its factory defaults.
USB Port	The USB port provides additional storage space for firmware images and configuration files that can be copied to and from the Switch. Only endpoint devices like USB flash drives are supported.
Console Port	The console port can be used to connect to the CLI of the Switch. This Out-Of-Band (OOB) connection can be made from the serial port of an administrative node to the RJ45 console port on the front panel of the Switch. The console cable (included in the package) must be used for the connection.
MGMT Port	The management (MGMT) port can be used to connect to the CLI or the Web UI of the Switch. SNMP-enabled connectivity can also be made through this port. This OOB connection can be made from a standard LAN adapter to the RJ45 MGMT port on the front panel of the Switch. This connection operates at 10/100/1000 Mbps.

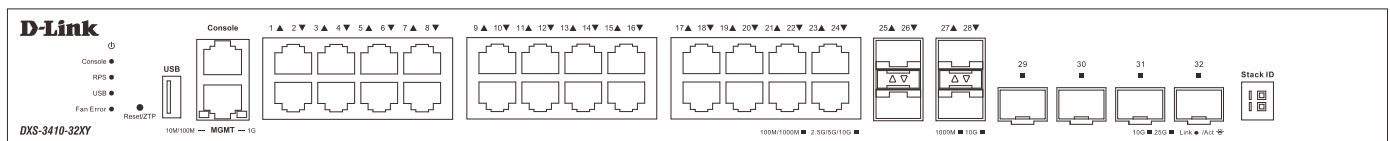


Figure 2-1 DXS-3410-32XY Front Panel

This following table lists the front panel components unique to the **DXS-3410-32XY**:

Port Type	Port Number	Description
RJ45 Ports (100 Mbps, 1/2.5/5/10 Gbps)	<i>Ports 1 to 24</i>	This switch is equipped with 24 RJ45 Ethernet ports that can operate at 100 Mbps, 1 Gbps, 2.5 Gbps, 5 Gbps, and 10 Gbps.
SFP+ Ports (1/10 Gbps)	<i>Ports 25 to 28</i>	This switch is equipped with 4 SFP+ Ethernet ports that can operate at 1 and 10 Gbps.
SFP28 Ports (10/25 Gbps)	<i>Ports 29 to 32</i>	This switch is equipped with 4 SFP28 Ethernet ports that can operate at 10 and 25 Gbps.

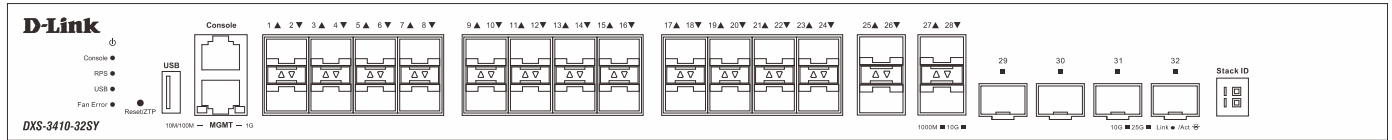


Figure 2-2 DXS-3410-32SY Front Panel

This following table lists the front panel components unique to the **DXS-3410-32SY**:

Port Type	Port Number	Description
SFP+ Ports (1/10 Gbps)	Ports 1 to 28	This switch is equipped with 28 SFP+ Ethernet ports that can operate at 1 and 10 Gbps.
SFP28 Ports (10/25 Gbps)	Ports 29 to 32	This switch is equipped with 4 SFP28 Ethernet ports that can operate at 10 and 25 Gbps.



NOTE: The **Uplink** and **Stacking** functions cannot operate at the same time on the SFP28 ports in this switch series.

Front Panel LED Indicators

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

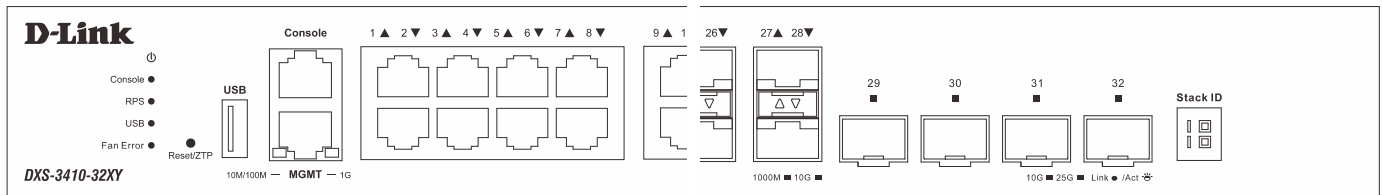


Figure 2-3 DXS-3410-32XY Front Panel (LED Indicators)

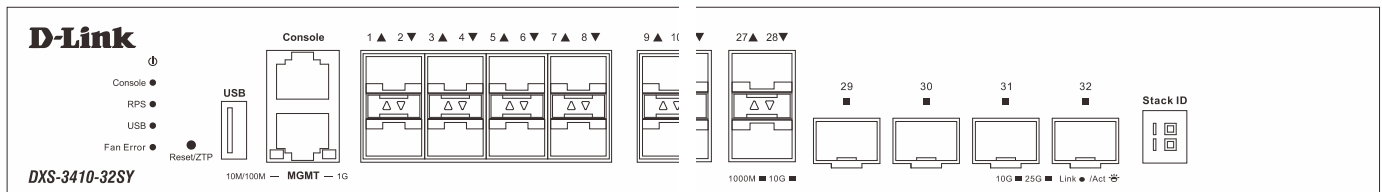


Figure 2-4 DXS-3410-32SY Front Panel (LED Indicators)

The front panel LED indicators are described in the following table:

LED	Color	Status	Description
Power	Green	On (Solid)	Power on and system ready
	-	Off	Power off
Console	Green	On (Solid)	Console active
	-	Off	Console off
RPS	Green	On (Solid)	RPS in use
	-	Off	RPS off
USB	Green	On (Solid)	USB disk is connected
		On (Blinking)	USB data in transmission
	-	Off	No USB device is connected
Fan	Red	On (Solid)	Fan has a runtime error and is brought offline

LED	Color	Status	Description
	-	Off	Fan is operating normally
MGMT (Link/Act) (Out-Of-Band port)	Green	On (Solid)	Active 1 Gbps connection through the port
		On (Blinking)	Data transmitted and received through the port
	Amber	On (Solid)	Active 10/100 Mbps connection through the port
		On (Blinking)	Data transmitted and received through the port
	-	Off	Inactive connection, no link present, or port disabled
Stack ID	Green	This 7-segment LED can display numbers from 1 to 9 and the following letters: H, h, E, and G. The stacking ID (ranging from 1 to 9) can be assigned manually by the user or automatically by the system.	
		H - The Switch functions as the master Switch within the stack.	
		h - The Switch serves as the backup master Switch within the stack.	
		E - Displayed if an error is detected during the system's self-test.	
		G - Displayed when the Safeguard engine enters the exhausted mode.	

LED	Color	Status	Description
Link/Act (10GE RJ45 ports)	Green	On (Solid)	Active 2.5/5/10 Gbps connection through the port
		On (Blinking)	Data transmitted and received through the port
	Amber	On (Solid)	Active 100/1000 Mbps connection through the port
		On (Blinking)	Data transmitted and received through the port
	-	Off	Inactive connection, no link present, or port disabled
Link/Act (10GE SFP+ ports)	Green	On (Solid)	Active 10 Gbps connection through the port
		On (Blinking)	Data transmitted and received through the port
	Amber	On (Solid)	Active 1 Gbps connection through the port
		On (Blinking)	Data transmitted and received through the port
	-	Off	Inactive connection, no link present, or port disabled
Link/Act (25GE SFP28 ports)	Green	On (Solid)	Active 25 Gbps connection through the port
		On (Blinking)	Data transmitted and received through the port
	Amber	On (Solid)	Active 10 Gbps connection through the port
		On (Blinking)	Data transmitted and received through the port
	-	Off	Inactive connection, no link present, or port disabled

The LED behavior during the **booting** or **rebooting** process is outlined as follows:

1. The Power LED exhibits a steady green light upon powering on until the system is ready.
2. All data port LEDs (including RJ-45 and fiber ports) will emit a simultaneous green or amber solid light once, then turn off until the system is ready.
3. The 7-segment LED will illuminate with all segments upon powering on until the system is ready, while other LEDs remain inactive.

Rear Panel Components

The rear panel features components like an AC power socket, a security lock, an electrical ground point, and more.

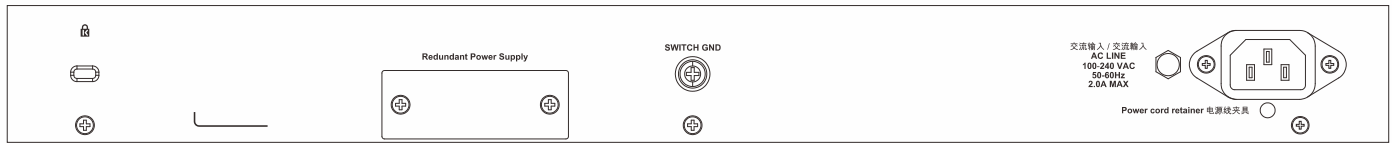


Figure 2-5 DXS-3410-32XY Rear Panel

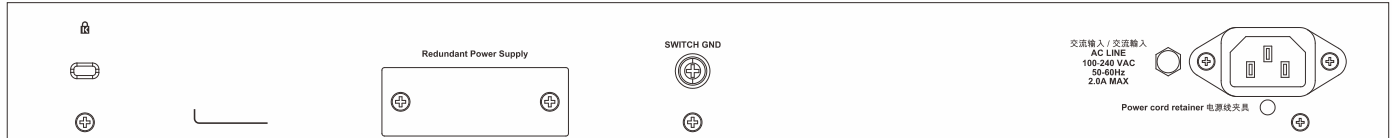


Figure 2-6 DXS-3410-32SY Rear Panel

This following table lists the rear panel components on the Switch:

Port	Description
Security Lock	The security lock, compatible with Kensington standards, enables connection of the Switch to a secure and immovable device. Insert the lock into the notch and turn the key to secure it. The lock-and-cable set should be acquired separately.
Redundant Power Supply	The RPS port can be utilized to connect an optional external load-sharing RPS to the Switch. In the event of internal power failure, the external RPS will promptly and automatically provide power to the Switch.
Switch GND	Utilize an electrical grounding wire to connect one end to the Switch GND and the other end to an electrical grounding point, typically located on the mounting rack of the Switch itself.
AC Power Connector	The AC power cord (included in the package) can be inserted into this receptacle to provide the Switch with 100-240 VAC power at 50-60 Hz.
Power Cord Retainer Hole	The power cord retainer hole is designed for inserting the power cord retainer, which secures the AC power cord in place.

Side Panel Components

The side panels feature components like rack-mounting screw holes, heat dissipating fans and vents.

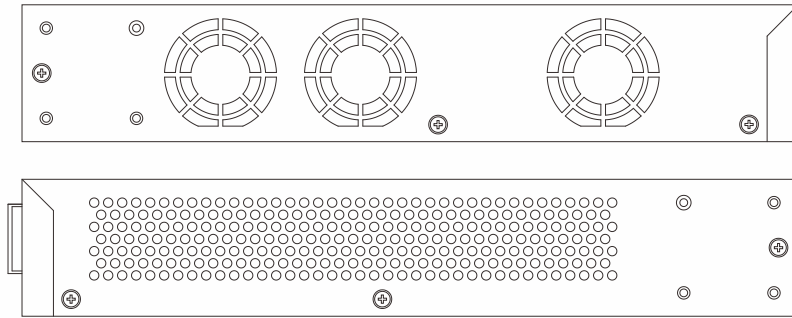


Figure 2-7 DXS-3410-32XY/32SY Side Panels

The fans are capable of automatically adjusting their speed based on the IC sensor's temperature readings. This feature is highly sensitive, enabling precise control of the internal temperature by accurately regulating the fan speed.

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

Fan Mode	Fan Status	DXS-3410-32XY	DXS-3410-32SY
Normal mode	Ultra Low	Below 12°C	Below 17°C
	Very Low	Above 15°C (Ultra Low to Very Low) Below 27°C (Low to Very Low)	Above 20°C (Ultra Low to Very Low) Below 27°C (Low to Very Low)
	Low	Above 30°C (Very Low to Low) Below 35°C (Medium to Low)	Above 30°C (Very Low to Low) Below 37°C (Medium to Low)
	Medium	Above 38°C (Low to Medium) Below 42°C (High to Medium)	Above 40°C (Low to Medium) Below 42°C (High to Medium)
	High	Above 45°C	Above 45°C
Quiet mode	Ultra Low	Can only be enabled if below 30°C. Returns to Normal mode is above 30°C.	



NOTE: When the **Quiet Mode** is enabled, ports 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, and 24 will be disabled.

3. Installation

Installation Guidelines

This section will cover the hardware installation guidelines that the user needs to adhere to for the correct and safe installation of this Switch in the suitable environment.

- Visually inspect the power cord to ensure it is securely connected to both the power connector on the Switch and the electrical outlet providing power.
- Position the Switch in a cool and dry location within the specified operating temperature and humidity ranges.
- Place the Switch in a location that is devoid of powerful electromagnetic field generators, such as motors, vibrations, dust, and direct sunlight exposure.

Installing the Switch without a Rack

This section provides guidance for users installing the Switch in a location outside of a Switch rack. Affix the provided rubber feet to the underside of the Switch. Please be aware that there are designated areas marked on the bottom of the Switch indicating where the rubber feet should be attached. These markings are typically located in each corner on the underside of the device. The rubber feet serve as cushions for the Switch, safeguarding the casing against scratches and preventing it from causing scratches on other surfaces.

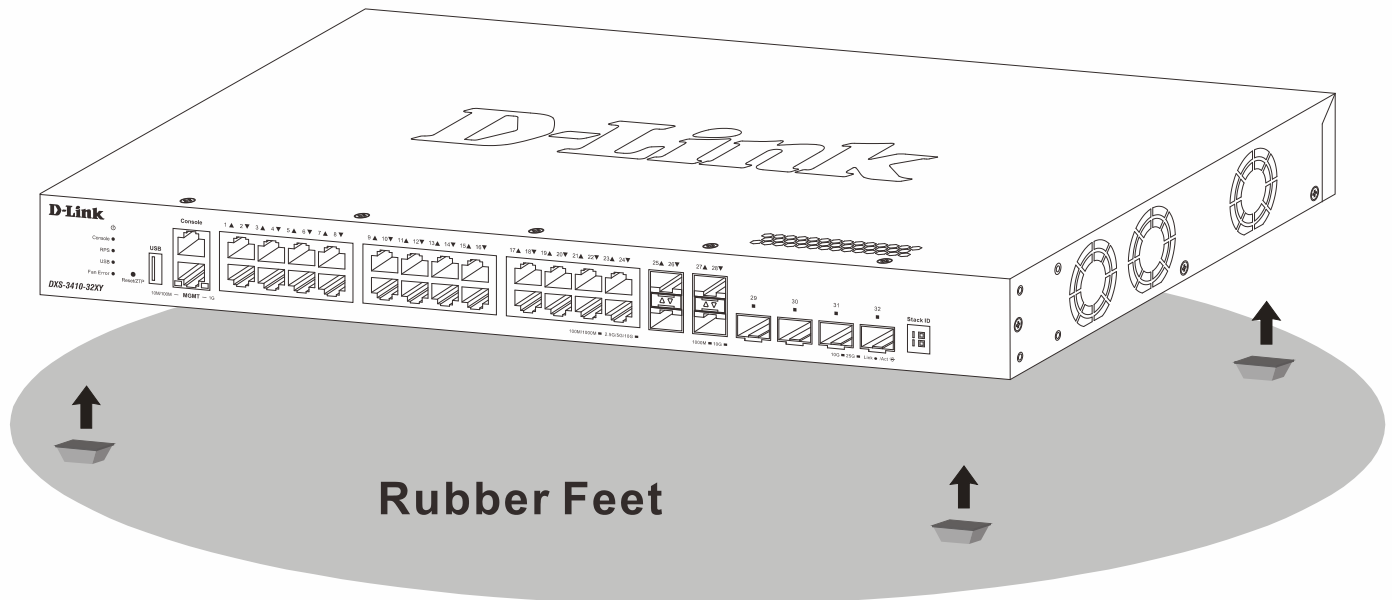


Figure 3-1 Attaching rubber feet to the Switch

Place the Switch on a stable, even surface capable of bearing its weight. Avoid putting heavy objects on the Switch. The power outlet should be located within 1.82 meters (6 feet) of the Switch. Ensure sufficient heat dissipation and proper ventilation around the Switch. Allow a minimum of 10 cm (4 inches) of clearance 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.

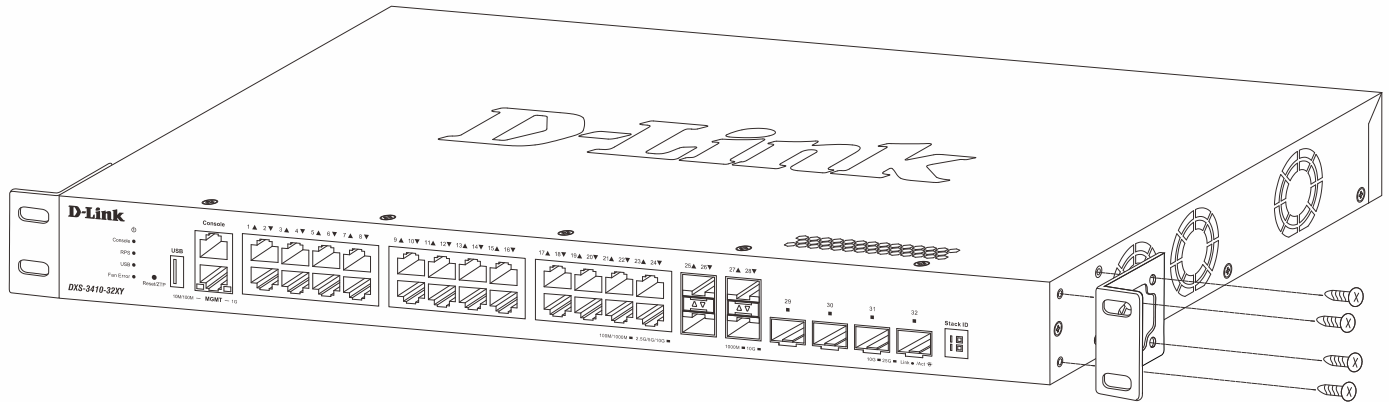


Figure 3-2 Attaching the rack-mounting brackets

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

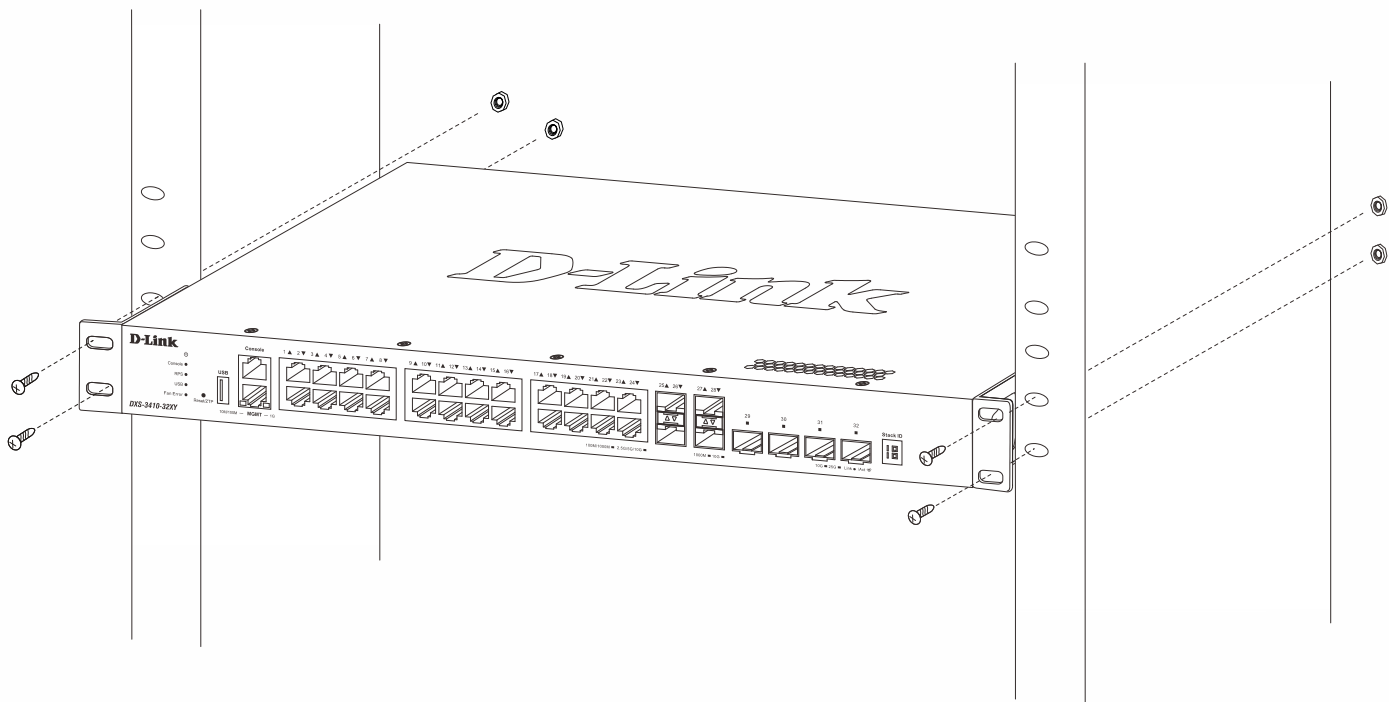


Figure 3-3 Installing the Switch in a Rack

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 outfitted with SFP+ and SFP28 ports designed for linking different networking devices to this Switch, especially those incompatible with the standard RJ45 wiring connection. Typically, these ports establish connections between this Switch and optical fiber links, facilitating communication over considerable distances. While RJ45 wiring connections have a maximum reach of 100 meters, fiber optic connections can extend over several kilometers.

The figure below illustrates the procedure for inserting **SFP28 transceivers** into the **SFP28 ports**.

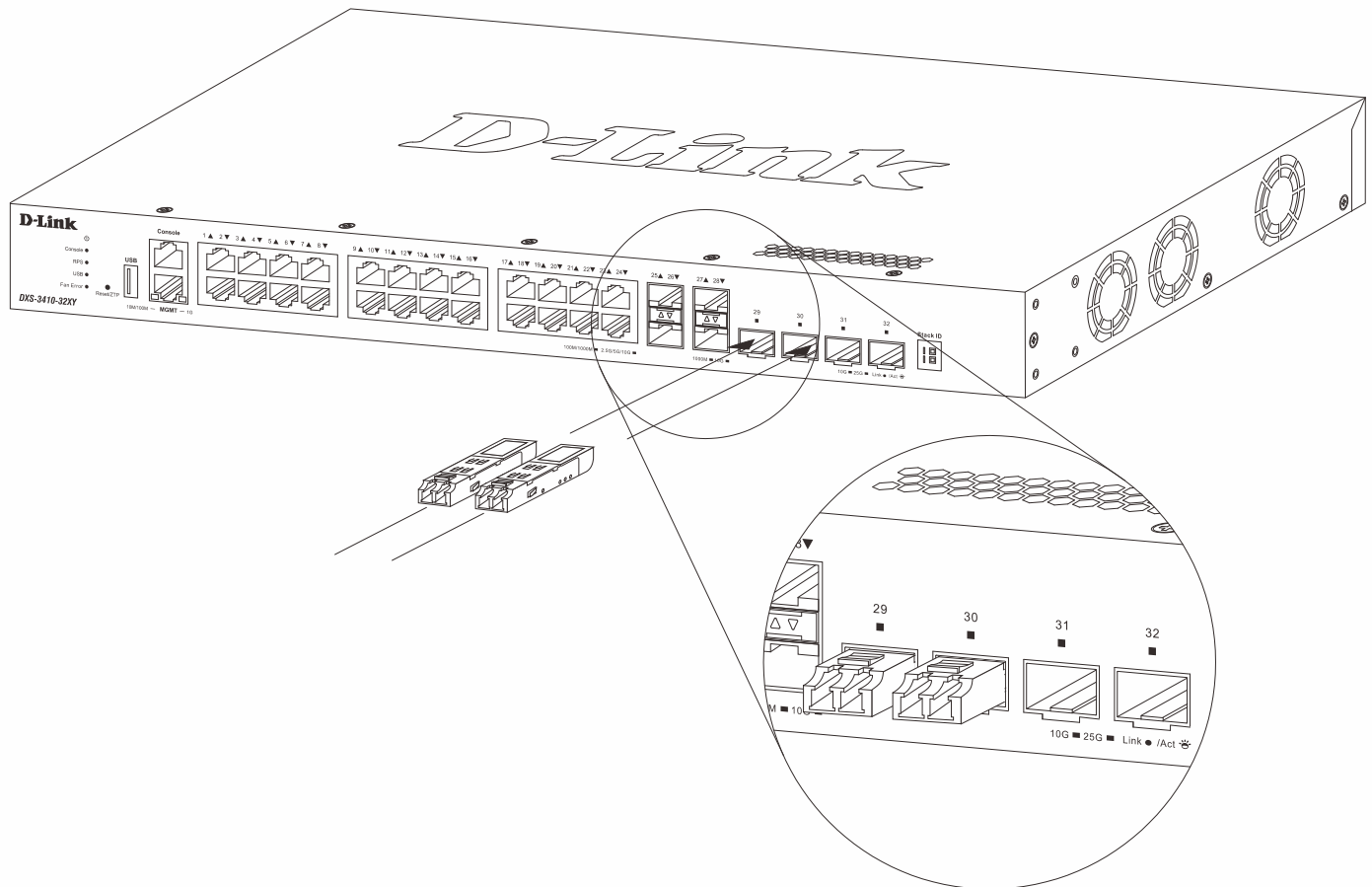


Figure 3-4 Inserting SFP28 transceivers into the SFP28 ports

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, insert one end of the AC power cord into the Switch's AC power socket, and the other end into the local AC power source outlet. The Switch lacks a power switch/button; it will initiate powering on automatically.

Once the system is activated, the Power LED will flash green, signifying the boot-up process. In case of a power failure, as a precautionary measure, disconnect the power cord from the Switch. After power is restored, reconnect the power cord to the Switch's power socket.

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.

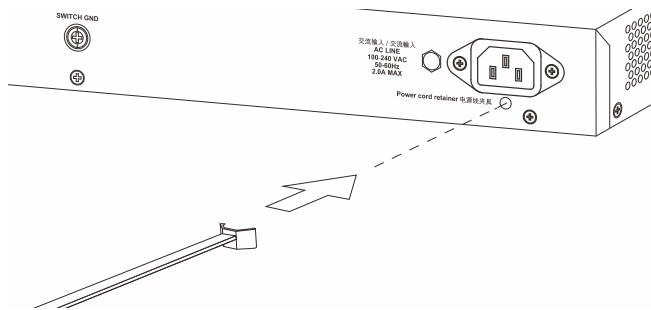


Figure 3-5 Insert Tie Wrap into the Switch

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

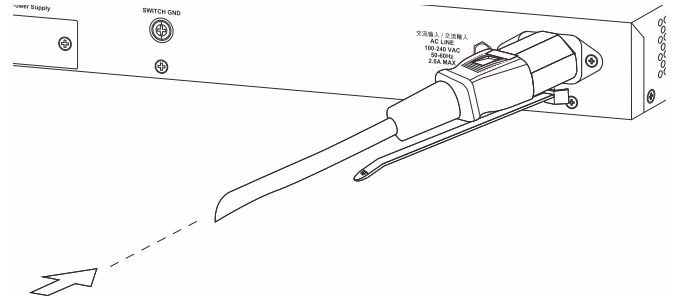


Figure 3-6 Connect the power cord to the Switch

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

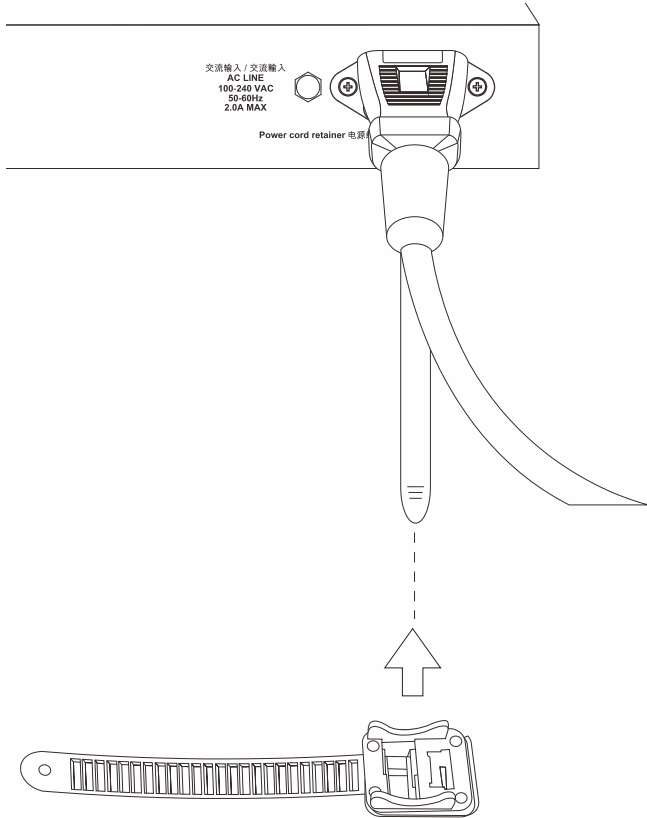


Figure 3-7 Slide the Retainer through the Tie Wrap

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

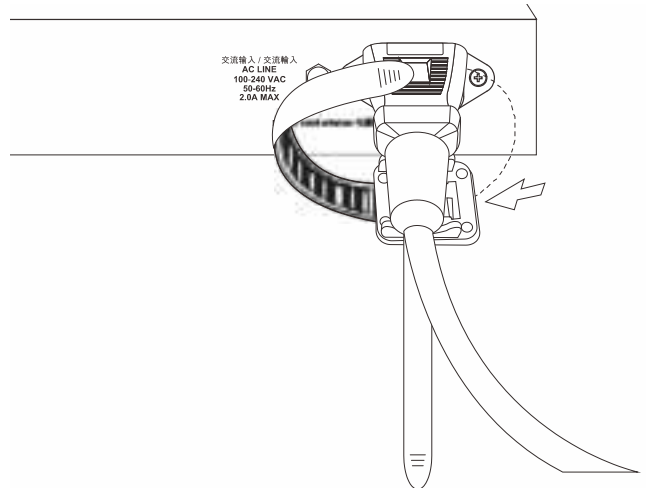


Figure 3-8 Circle around the power cord

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

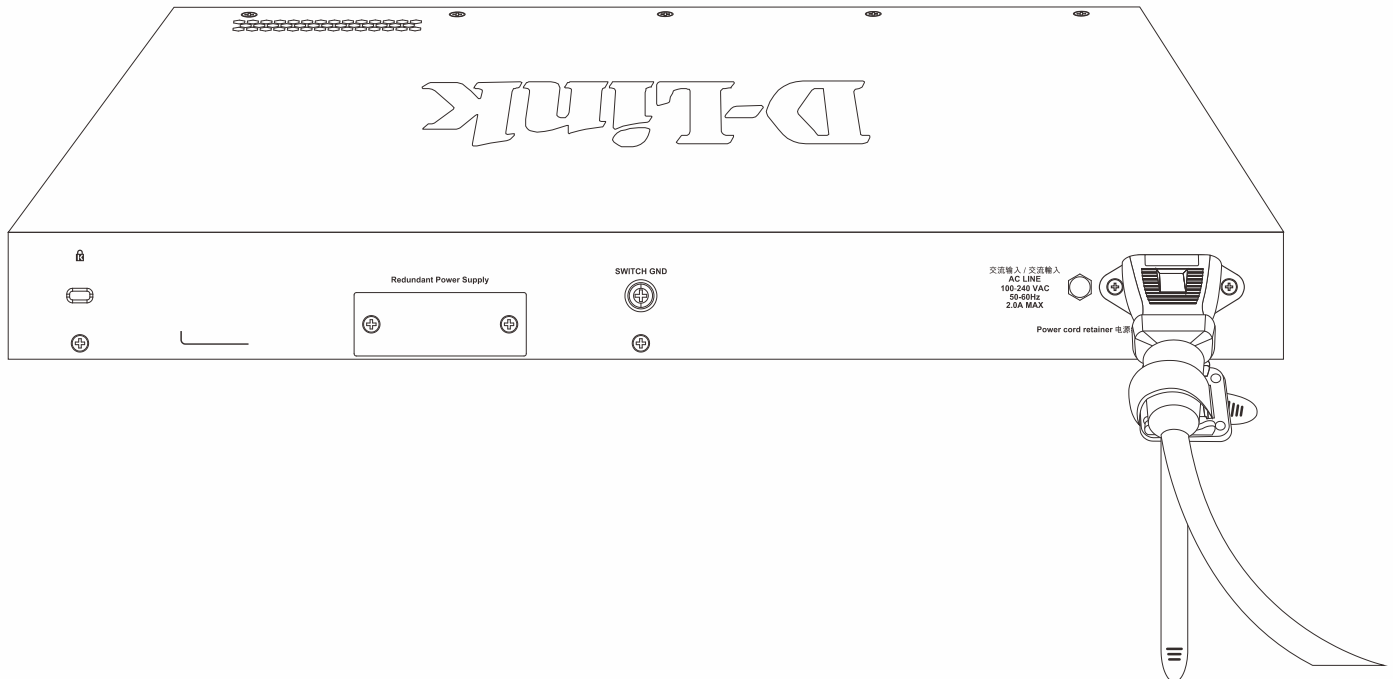


Figure 3-9 Secure the power cord

Installing the Redundant Power Supply (RPS)

An RPS (Redundant Power Supply) is an external unit encased in a durable metal casing. It features sockets for connecting AC or DC-powered sources at one end and links to a Switch's internal power supply at the other end. The RPS offers an economical and straightforward remedy to address the risk of an unintended internal power supply failure within an Ethernet Switch. Such a failure could lead to the shutdown of the Switch itself, the devices connected to its ports, or even an entire network.

Connecting the DPS-500A RPS to the Switch

The D-Link DPS-500A is the recommended RPS for the Switch. This RPS is specifically engineered to adhere to the wattage requirements of D-Link's Ethernet Switches, and it can be linked to the RPS port of the Switch using a 14-pin DC power cable. A standard three-pronged AC power cable is used to connect 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 establish a connection between the RPS and the Switch, begin by detaching the AC power cord from the AC power port of the Switch. Employ a Phillips-head screwdriver to remove the RPS port cover by loosening the two screws that secure the RPS cover in place.

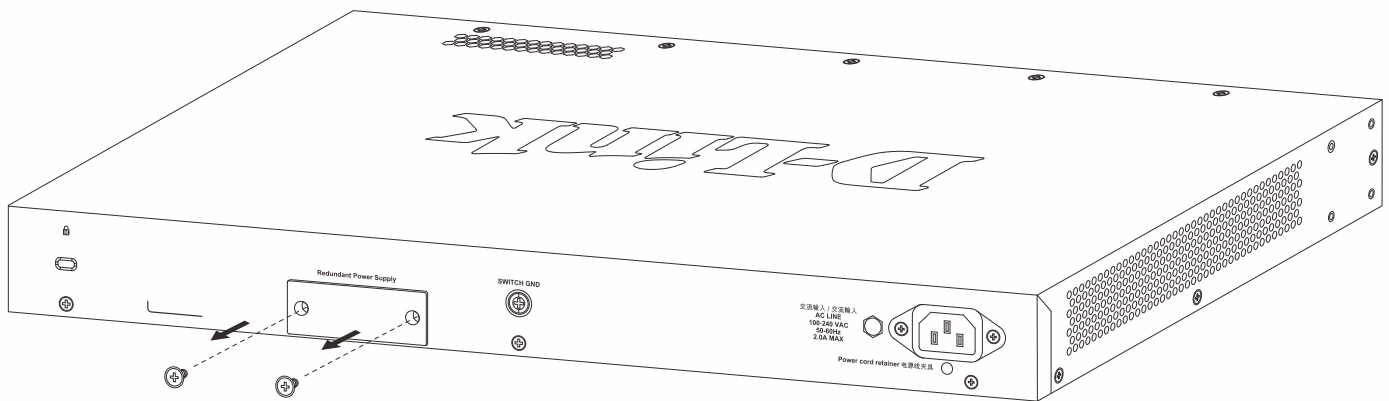


Figure 3-10 Removing the RPS port cover

Insert one end of the 14-pin DC power cable into the RPS port on the Switch and the other end into the RPS unit. Connect the RPS unit to the main AC power source.

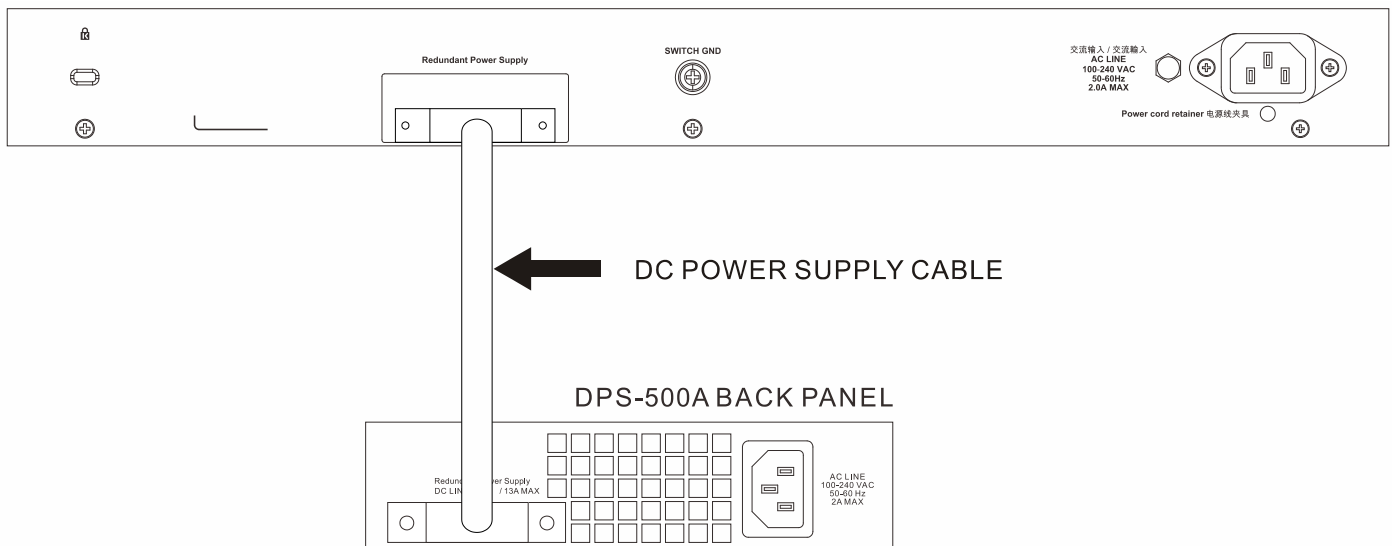


Figure 3-11 Connecting the DPS-500A

A green LED on the front panel of the RPS unit will illuminate, indicating a successful connection. Reattach the AC power cord to the AC power port of the Switch. The RPS LED indicator on the front panel of the Switch will confirm the presence and operation of the RPS. No software configuration is necessary.



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.

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

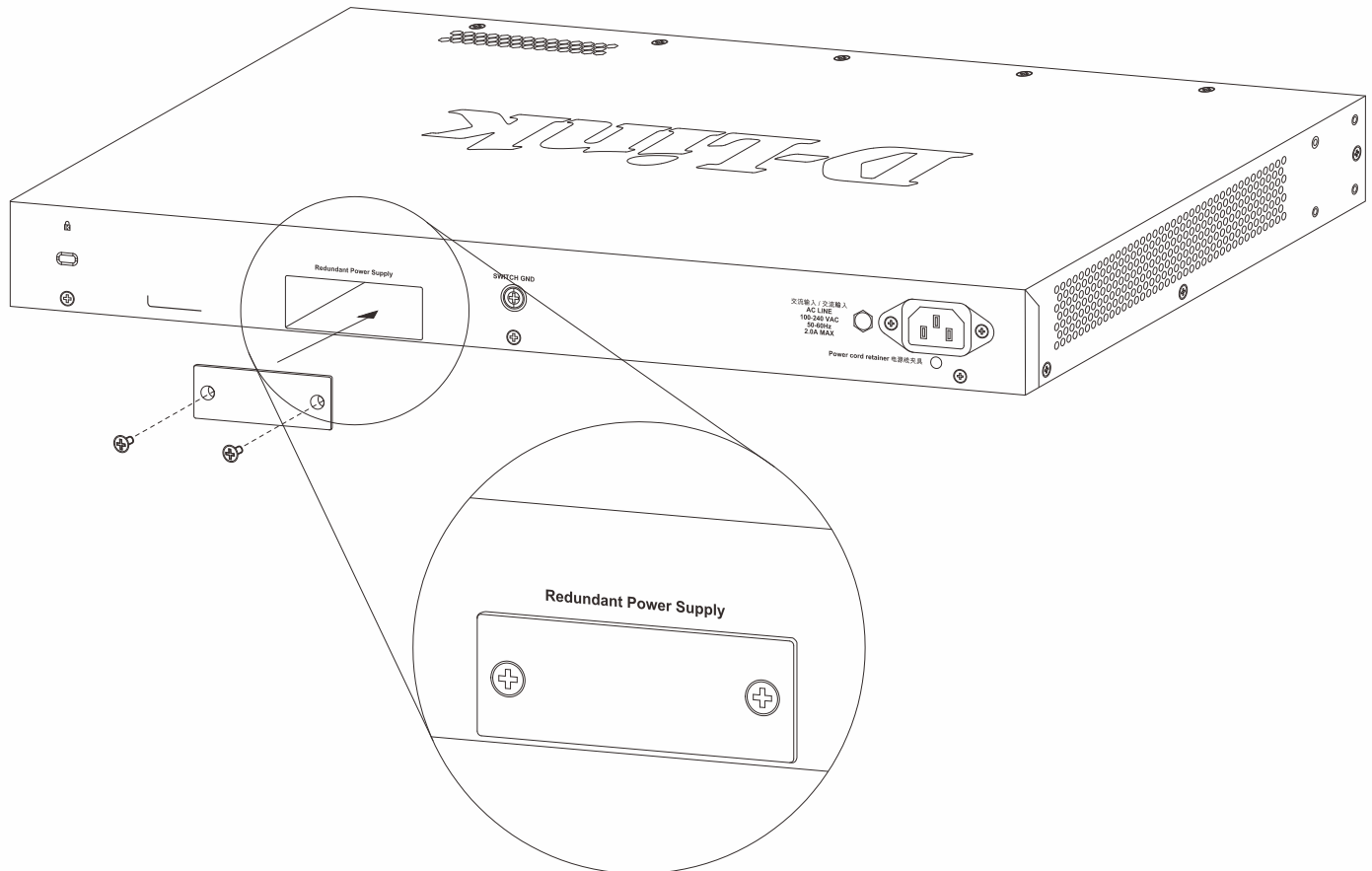


Figure 3-12 Reinstalling the RPS port cover (when no RPS is connected)

4. Switch Connections

Stacking the Switch

Switches in the series can be physically stacked by utilizing the last four ports on the front panel of the Switch. It is possible to stack up to nine Switches, which can then be managed through a single connection to any of the LAN ports using Telnet, the Web UI, and SNMP. This cost-effective Switch presents an economical solution for administrators aiming to upgrade their networks, leveraging the stacking ports for scaling and stacking purposes. This ultimately enhances overall reliability, serviceability, and availability.

The Switch supports the following stacking topologies:

- **Duplex Chain** - This topology interconnects Switches in a chain-link format, enabling data transfer in one direction only. A disruption in the chain will impact data transfer.
- **Duplex Ring** - In this topology, Switches form a ring or circle, allowing data transfer in two directions. It is highly robust, as even if the ring is broken, data can still be transmitted via the stacking cables between Switches using an alternative route.

In the following diagram, Switches are stacked in the **Duplex Chain** topology.

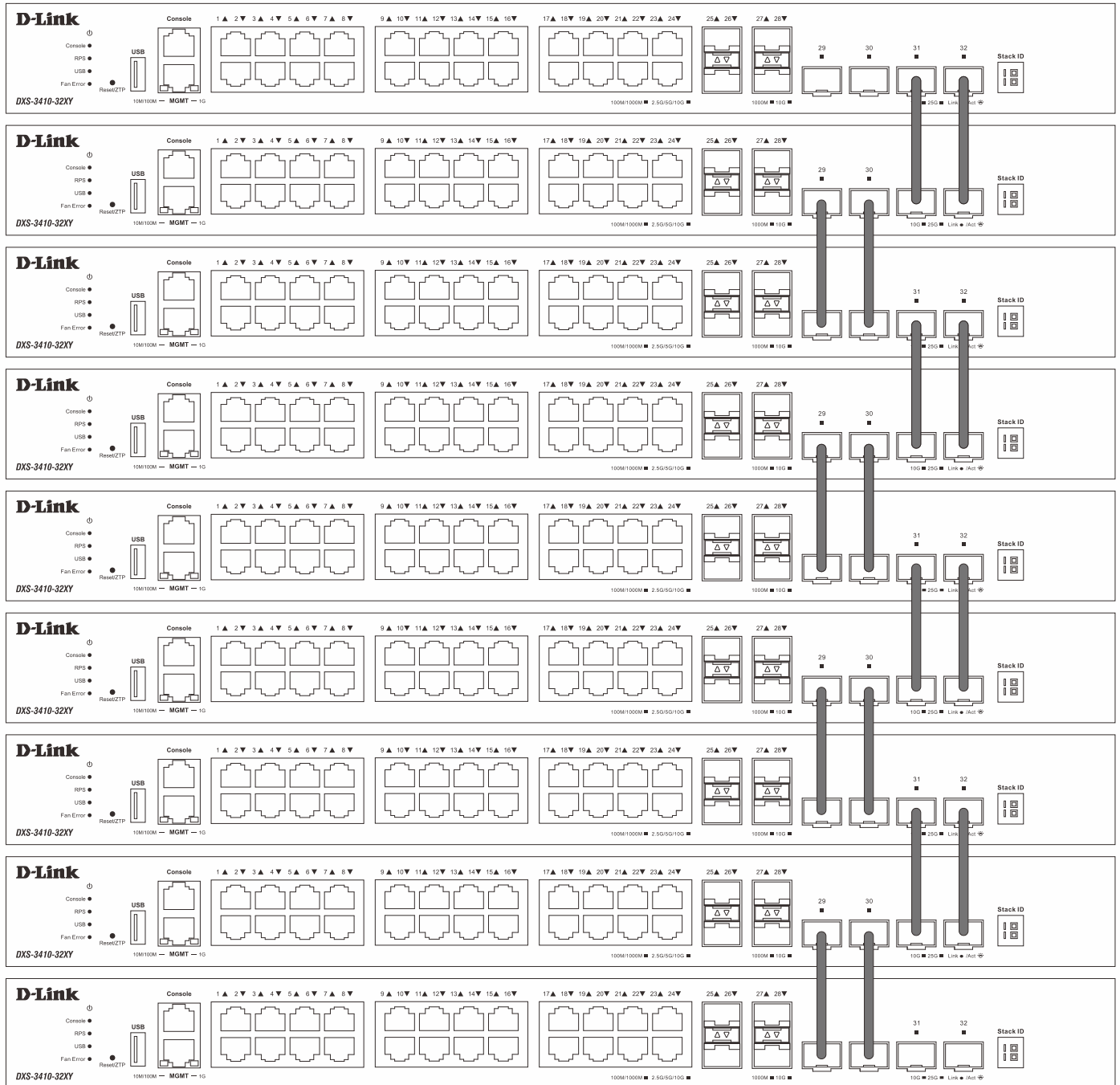


Figure 4-1 Duplex Chain Stacking Topology

In the following diagram, Switches are stacked in the **Duplex Ring** topology.

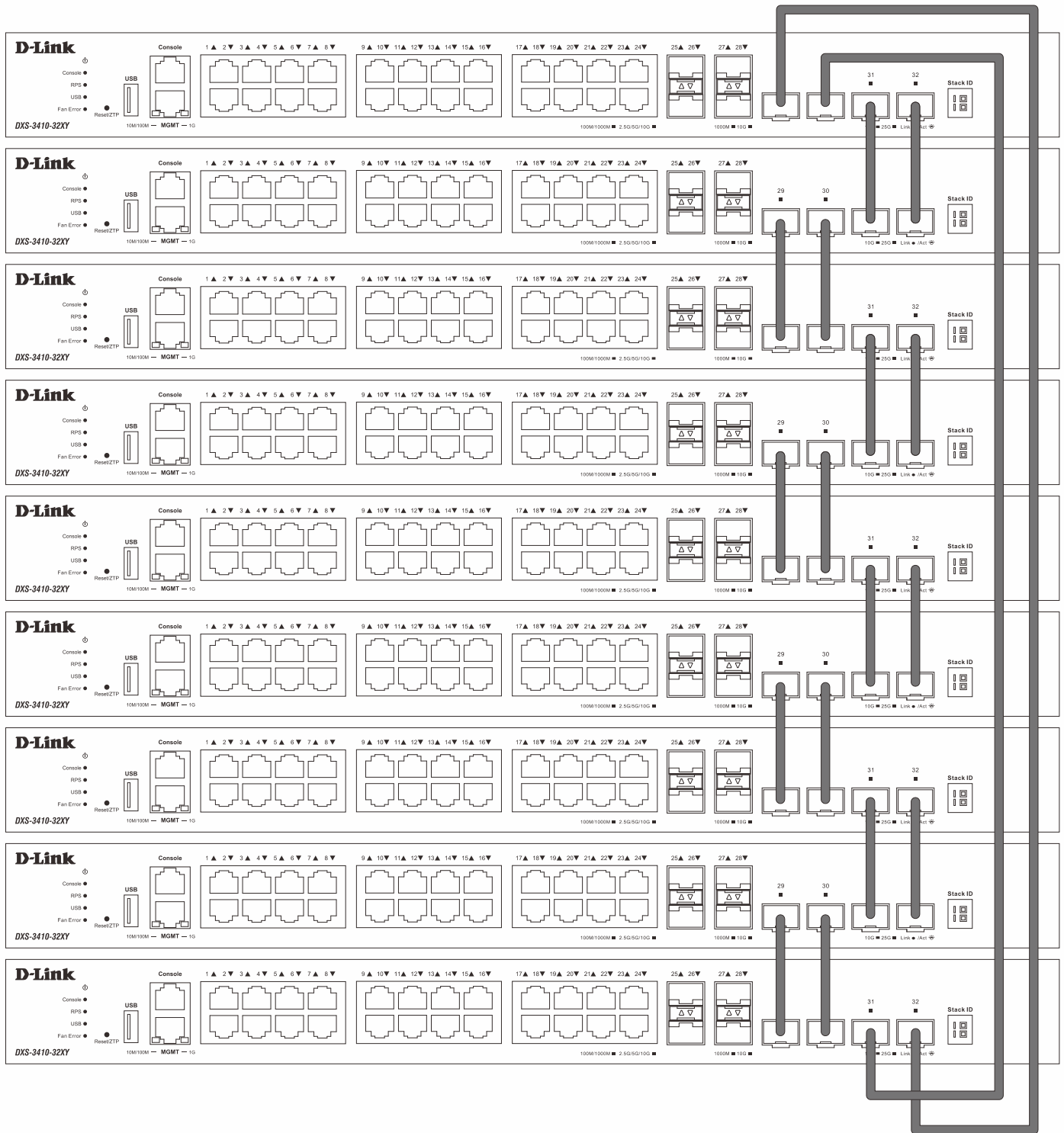


Figure 4-2 Duplex Ring Stacking Topology

Switch to Switch

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

There is significant flexibility in establishing connections using the suitable cabling:

- For 100BASE-TX connections to the Switch, use Category 5e UTP/STP cables.
- For 1000BASE-T connections to the Switch, use Category 5e/6 UTP/STP cables.
- For 2.5GBASE-T connections to the Switch, use Category 5e/6 UTP/STP cables.
- For 5GBASE-T connections to the Switch, use Category 5e/6 UTP/STP cables.
- For 10GBASE-T connections to the Switch, use Category 6a/7 UTP/STP cables.
- For fiber optic connections to the Switch's SFP+/SFP28 ports, make use of the appropriate fiber optic cables.

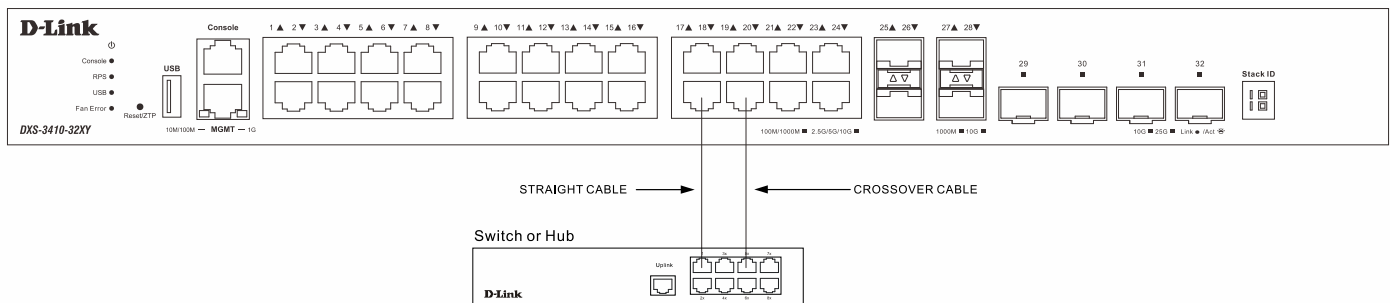


Figure 4-3 Switch to another Switch/Hub

Switch to End Node

An end node is a general term for edge networking devices that will be linked to this Switch. Common examples of end nodes include Servers, Personal Computers (PCs), Notebooks, Access Points, Print Servers, VoIP Phones, and more. Each end node should have an RJ45 networking port. Typically, end nodes will connect to this Switch using a standard twisted-pair UTP/STP network cable. Upon a successful connection, the corresponding port light will illuminate and blink, signifying network activity on that port.

The diagram below displays a typical end node (normal PC) connected to the Switch.

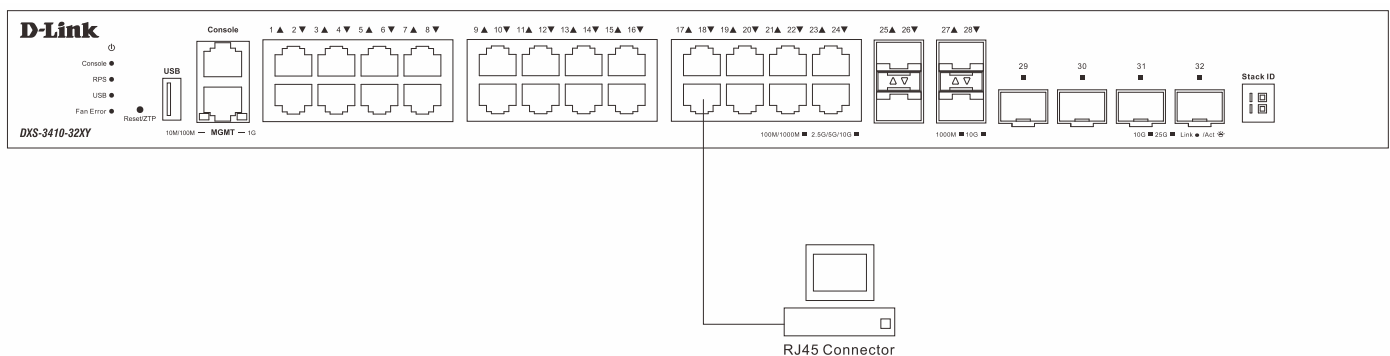


Figure 4-4 Switch to End Node (Client)

The diagram below displays a Server connected to the Switch.

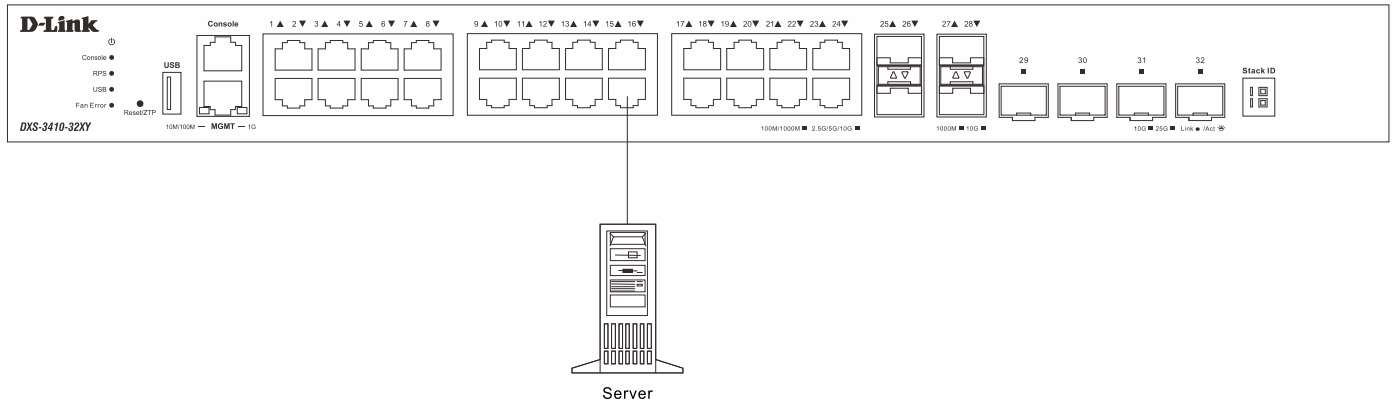


Figure 4-5 Switch to End Node (Server)

5. Switch Management

Management Options

Users can configure, manage, and monitor the software features of the Switch through the Command Line Interface (CLI), Web User Interface (Web UI), or third-party SNMP software.

Command Line Interface (CLI)

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



NOTE: For more information about the CLI, refer to the *DXS-3410 Series CLI Reference Guide*.

Connecting to the Console Port

The Console port is used to establish a connection with the Switch's CLI. Connect the DB9 connector of the console cable (provided in the package) to the Serial (COM) port of the computer. Connect the RJ45 connector of the console cable to the Console port on the Switch.

For accessing the CLI via the Console port, Terminal Emulation Software such as PuTTY or Tera Term is required. The Switch utilizes a connection speed of **115200 bits per second** with no flow control enabled.

A screenshot of a terminal emulation software configuration window. The window has a light gray background and contains several labeled fields with dropdown menus. The fields are: 'Port:' set to 'COM1', 'Baud rate:' set to '115200', 'Data:' set to '8 bit', 'Parity:' set to 'none', 'Stop:' set to '1 bit', and 'Flow control:' set to 'none'. To the right of these fields are three buttons: 'OK' (highlighted with a blue border), 'Cancel', and 'Help'.

Port:	COM1	OK
Baud rate:	115200	Cancel
Data:	8 bit	Help
Parity:	none	
Stop:	1 bit	
Flow control:	none	

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

When we connect to the CLI for the first time, we'll be required to change the login password.

Enter the default username and password to get the process started. The default username and password is *admin*.

Follow the prompts to successfully change the login password, as shown below.

```
DXS-3410-32XY TenGigabit Ethernet Switch

Command Line Interface
Firmware: Build 1.00.010
Copyright(C) 2024 D-Link Corporation. All rights reserved.

User Access Verification

Username:admin
Password:*****

Please modify the password of default user 'admin' for security.
Enter Old Password:*****
Enter New Password:*****
Confirm New Password:*****
Password has been changed successfully!
Login again using new password.

Username:admin
Password:*****

Switch#
```

Configuring the IP Address

To be able to access the Web UI, or the CLI via Telnet/SSH, we need to know what the IP address of the Switch is.

The default IP address is 10.90.90.90 with a subnet mask of 255.0.0.0.

To change the IP address of the Switch to, for example 172.31.131.116 with a subnet mask of 255.255.255.0:

Enter the **"configure terminal"** command to enter the **Global Configuration Mode**.

```
Switch# configure terminal
```

Enter the **"interface vlan 1"** command to enter the **VLAN Configuration Mode** of the default VLAN 1.

```
Switch(config)# interface vlan 1
```

Enter the **"ip address"** command followed by the new IP address and subnet mask.

```
Switch(config-if)# ip address 172.31.131.116 255.255.255.0
```

Enter the **"end"** command to return to the **Privilege EXEC Mode**.

```
Switch(config-if)# end
```

Enter the **"copy running-config startup-config"** command to save the configuration.

```
Switch#copy running-config startup-config
```

```
Destination filename startup-config? [y/n]: y
```

```
Saving all configurations to NV-RAM..... Done.
```

```
Switch#
```

Web User Interface (Web UI)

The Web UI, which offers a more graphical interface, grants access to the majority of the software features present on the Switch. These features can be enabled, configured, disabled, or monitored through any standard web browser, such as Microsoft's Internet Explorer, Mozilla Firefox, Google Chrome, or Safari. The LAN ports provide an in-band connection to the Web UI using HTTP or HTTPS (SSL).

The Web UI examples in this guide was capture using the **Microsoft Edge** browser.

Connecting to the Web UI

By default, **Secure HTTP (https)** access is available to the Switch. To access the Web UI, open a standard web browser and enter **https://** followed by the IP address of the Switch into the address bar of the browser. Press the **Enter** key. For example, **https://10.90.90.90**.



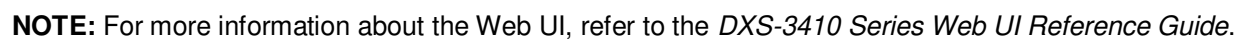
NOTE: The default IP address of the Switch is **10.90.90.90** (subnet mask *255.0.0.0*). The default username and password is **admin**.

Logging into the Web UI

Enter the **User Name** and **Password** and click the **Login** button.



Figure 5-2 Web UI Login Window



SNMP-based Management

The Switch can be managed through an SNMP-compatible console program. It supports versions 1, 2c, and 3 of the Simple Network Management Protocol (SNMP). An SNMP agent decodes incoming SNMP messages and replies to requests with MIB (Management Information Base) 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 achieved through *community strings*, which function akin to passwords. Both the remote user's SNMP application and the Switch must employ the same community string. SNMP packets from unauthenticated stations are disregarded (dropped).

The default community strings for the Switch are as follows:

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

SNMPv3 employs a more intricate authentication process, separated into two segments.

- The first involves maintaining a list of users and their attributes permitted to act as SNMP managers.
- The second defines the actions each user on that list can take as an SNMP manager.

The Switch enables the listing and configuration of groups of users with shared privileges. This SNMP version can also be set for a designated group of SNMP managers. Consequently, one group of SNMP managers can view read-only information or receive traps using SNMP version 1, while another group can be endowed with higher security levels, entailing read/write privileges via SNMP version 3.

With SNMP version 3, individual users or groups of SNMP managers can be granted or restricted from executing specific SNMP management functions. The permissible or restricted functions are defined using the Object Identifier (OID) associated with a particular MIB. SNMP version 3 also provides an extra layer of security, allowing encryption of SNMP messages.

Traps

Traps are messages sent by an SNMP-enabled device to the Network Management Station (NMS), serving to notify network personnel of events taking place on the Switch. These events can range from significant occurrences, such as a reboot (caused by someone accidentally turning off the Switch), to less critical changes, like a port status update. The Switch generates traps and dispatches them to a pre-configured IP address, usually associated with an NMS. Common trap examples encompass messages for Authentication Failure and Topology Change.

Management Information Base (MIB)

A Management Information Base (MIB) stores management and counter information. The Switch employs the standard MIB-II module for Management Information Base. This enables retrieval of MIB object values from any SNMP-based network management software. In addition to the standard MIB-II, the Switch also accommodates its proprietary enterprise MIB as an extended Management Information Base. The proprietary MIB can also be obtained by specifying the MIB Object Identifier. MIB values are categorized as either read-only or read-write.

Appendix A - Technical Specifications

Physical Specifications

Feature	Description		
Dimensions	<i>DXS-3410-32XY</i>	441 mm (W) x 250 mm (D) x 44 mm (H)	
	<i>DXS-3410-32SY</i>	441 mm (W) x 250 mm (D) x 44 mm (H)	
	All switch are 19-inch, 1 U Rack-mount size		
Weight	<i>DXS-3410-32XY</i>	3.67 kg	
	<i>DXS-3410-32SY</i>	3.80 kg	
AC Power Supply <i>(Internal)</i>	<i>DXS-3410-32XY</i>	100~240 VAC, 50~60 Hz, 150 Watt	
	<i>DXS-3410-32SY</i>	100~240 VAC, 50~60 Hz, 150 Watt	
Redundant Power Supply	<i>DXS-3410-32XY</i>	Optional RPS through the RPS port (14-pin) on the back panel. Supports the DPS-500A.	
	<i>DXS-3410-32SY</i>		
Fans	The IC Sensor detects the temperature on the switch automatically and adjusts the speed.		
	<i>DXS-3410-32XY</i>	3 fans	
	<i>DXS-3410-32SY</i>	3 fans	
Power Consumption <i>(Maximum)</i>	<i>DXS-3410-32XY</i>	100 VAC / 60 Hz	108.5 Watts
		240 VAC / 50 Hz	109.0 Watts
	<i>DXS-3410-32SY</i>	100 VAC / 60 Hz	103.5 Watts
		240 VAC / 50 Hz	104.0 Watts
Power Consumption <i>(Standby)</i>	<i>DXS-3410-32XY</i>	100 VAC / 60 Hz	41.8 Watts
		240 VAC / 50 Hz	42.7 Watts
	<i>DXS-3410-32SY</i>	100 VAC / 60 Hz	29.3 Watts
		240 VAC / 50 Hz	29.8 Watts
MTBF	<i>DXS-3410-32XY</i>	434433.8793 Hours (with AC power)	
	<i>DXS-3410-32SY</i>	437675.0388 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: 0°C to 50°C (32°F to 122°F) Storage: -40°C to 70°C (-40°F to 158°F)
Humidity	Operating: 10 % to 90 % 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	<i>DXS-3410-32XY</i>	760 Gbps	
	<i>DXS-3410-32SY</i>	760 Gbps	
MAC Address Table	Up to 288K entries (1K static MAC addresses)		
Physical Stacking	Topology	Duplex Ring and Duplex Chain	
	Bandwidth	Up to 200 Gbps (Full-duplex)	
	Stack Number	Up to 9 Switches	
Packet Buffer	<i>DXS-3410-32XY</i>	4 MB	
	<i>DXS-3410-32SY</i>	4 MB	
Packet Forwarding Rate <i>(Maximum)</i>	<i>DXS-3410-32XY</i>	565.44 Mpps	
	<i>DXS-3410-32SY</i>	565.44 Mpps	
Forwarding Mode	Store and forward Cut through forwarding		
Priority Queues	Supports the following: Maximum of 8 Priority Queues per port		
Link Aggregation	Supports the following: - Maximum of 32 groups per device - Maximum of 8 ports per group		
Static Routes	Supports the following: - Maximum of 256 static IPv4 routes - Maximum of 128 static IPv6 routes		
ACL Entries <i>(Maximum)</i>	<i>Ingress</i>	MAC	1280 rules
		IPV4	2560 rules
		IPv6	640 rules
		Expert	1280 rules
	<i>Egress</i>	MAC	1024 rules
		IPV4	1024 rules
		IPv6	512 rules
		Expert	512 rules

Port Type Specifications

Feature	Description	
Console Port	Baud Rate	115200 (default), 19200, 38400, and 9600 bps
	Data Bits	8
	Stop Bit	1
	Parity	None
	Flow Control	None
10G RJ45 Ports	Standards	IEEE 802.3u (100BASE-TX) IEEE 802.3ab (1000BASE-T) IEEE 802.3bz (5GBASE-T and 2.5GBASE-T) IEEE 802.3an (10GBASE-T) IEEE 802.3az (Energy-Efficient Ethernet)

Feature	Description	
		IEEE 802.3x (Full-Duplex, Flow Control)
	The RJ45 ports support the following features: • Back pressure for half-duplex mode • Head-of-line blocking prevention • Manual/auto MDI/MDIX configuration • Auto-negotiation for each port	
10G SFP+ Ports	Standards	IEEE 802.3z (1000BASE-X) IEEE 802.3ah (1000BASE-BX10) IEEE 802.3ae (10GBASE-R)
	The SFP+ ports support the following features: • Only full-duplex operation • The auto-negotiation and auto-speed functions are not supported • IEEE 802.3x flow control for the full-duplex mode All SFP+ ports are backwards compatible to support SFP transceivers.	
25G SFP28 Ports	Standards	IEEE 802.3ae (10GBASE-R) IEEE 802.3by (25GBASE-R)
	The SFP28 ports support the following features: • Only full-duplex operation • The auto-negotiation and auto-speed functions are not supported • IEEE 802.3x flow control for the full-duplex mode • All ports operate at 10 Gbps and 25 Gbps simultaneously	

Certifications

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

Supported SFP/SFP+/SFP28 Transceivers**Fiber Transceivers**

Form Factor	Product Code	Standard	Mode	Distance	TX	RX
SFP	DEM-310GT	1000BASE-LX	Single-mode	10 km	1310 nm	
SFP	DEM-311GT	1000BASE-SX	Multi-mode	550 m	850 nm	
SFP	DEM-312GT2	1000BASE-SX	Multi-mode	2 km	1310 nm	
SFP	DEM-314GT	1000BASE-LHX	Single-mode	50 km	1550 nm	
SFP	DEM-315GT	1000BASE-ZX	Single-mode	80 km	1550 nm	
WDM (BiDi) SFP	DEM-330T	1000BASE-BX-D	Single-mode	10 km	1550 nm	1310 nm
WDM (BiDi) SFP	DEM-330R	1000BASE-BX-U	Single-mode	10 km	1310 nm	1550 nm
WDM (BiDi) SFP	DEM-331T	1000BASE-BX-D	Single-mode	40 km	1550 nm	1310 nm
WDM (BiDi) SFP	DEM-331R	1000BASE-BX-U	Single-mode	40 km	1310 nm	1550 nm
SFP+	DEM-431XT	10GBASE-SR	Multi-mode	300 m	850 nm	
SFP+	DEM-432XT	10GBASE-LR	Single-mode	10 km	1310 nm	
SFP+	DEM-433XT	10GBASE-ER	Single-mode	40 km	1550 nm	
SFP+	DEM-434XT	10GBASE-ZR	Single-mode	80 km	1550 nm	
WDM (BiDi) SFP+	DEM-436XT-BXD	10GBASE-LR	Single-mode	20 km	1330 nm	1270 nm
WDM (BiDi) SFP+	DEM-436XT-BXU	10GBASE-LR	Single-mode	20 km	1270 nm	1310 nm
SFP28	DEM-S2801SR	25GBASE-SR	Multi-mode	100 m	850 nm	
SFP28	DEM-S2810LR	25GBASE-LR	Single-mode	10 km	1310 nm	

Copper Transceivers

Form Factor	Product Code	Standard	Connector	Distance	Power	Amps
SFP	DGS-712	1000BASE-T	SFP to RJ45	100 m	3.3 V	375 mA
SFP+	DEM-410T	10GBASE-T	SFP+ to RJ45	30 m	3.3 V	780 mA

DAC (Direct Attached Cables)

Form Factor	Product Code	Connectors	Wire AWG	Dist.
SFP+	DEM-CB100S	10G Passive SFP+ to SFP+	30 AWG	1 m
SFP+	DEM-CB300S	10G Passive SFP+ to SFP+	30 AWG	3 m
SFP+	DEM-CB700S	10G Passive SFP+ to SFP+	30 AWG	7 m
SFP28	DEM-CB100S28	25G Passive SFP28 to SFP28	30 AWG	1 m
SFP28	DEM-CB100Q28-4S28	4 x 25G SFP28 to 1 x 100G QSFP28	30 AWG	1 m



NOTE: Only HW version A2 DEM-410T transceivers are compatible with DXS-3410 Series switches. Install these transceivers exclusively in ports 25 through 32 within environments with an ambient temperature not exceeding 40 °C (104 °F). When using the DEM-410T, do not force the port speed. Keep the port speed and duplex settings in the **auto** mode.

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.

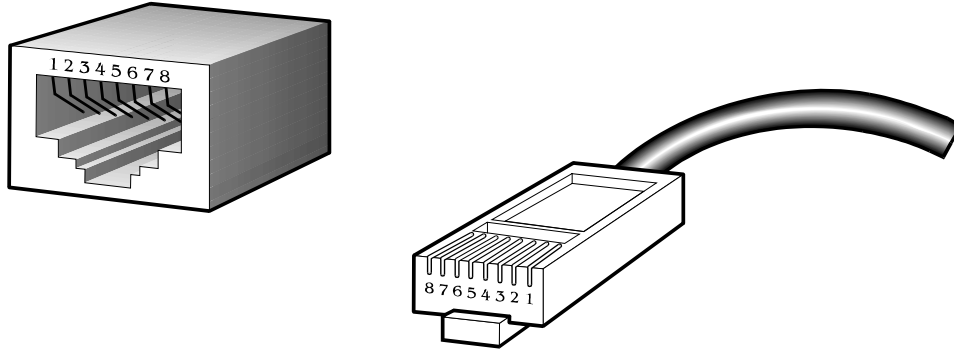


Figure B-1 Standard RJ45 port and connector

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-232 cable and pin assignments.

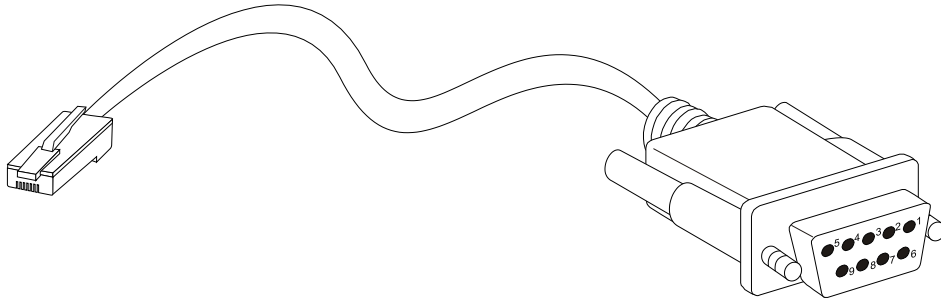


Figure B-2 Console to RJ45 Cable

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

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 24	Port 25 to 28	Port 29 to 32
DXS-3410-32XY	$\leq 50\text{ms}$		V	V
	$> 50\text{ms}$	V		
DXS-3410-32SY	$\leq 50\text{ms}$	V	V	V
	$> 50\text{ms}$			

Safety/Sécurité

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



CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.

ATTENTION : Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez les piles usagées selon les instructions.

警告： 如果更換不正確之電池型式會有爆炸的風險。請依製造商說明書處理用過之電池。

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.
- Éloignez 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 réglementation 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.

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, the actual price paid by the original purchaser for 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 in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted 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, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that 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://rma.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. Hermann, 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, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, 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 WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR 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 <http://support.dlink.com/register/>

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	eu.dlink.com/support
TECHNISCHE UNTERSTÜTZUNG	
ASSISTANCE TECHNIQUE	
ASISTENCIA TÉCNICA	
SUPPORTO TECNICO	
TECHNISCHE ONDERSTEUNING	
POMOC TECHNICZNA	
TECHNICKÁ PODPORA	
TECHNIKAI TÁMOGATÁS	
TEKNISK STØTTE	
TEKNISK SUPPORT	
TEKNINEN TUKI	
TEKNISK SUPPORT	
ASSISTÊNCIA TÉCNICA	
ΤΕΧΝΙΚΗ ΥΠΟΣΤΗΡΙΞΗ	
TEHNIČKA PODRŠKA	
TEHNIČNA PODPORA	
SUPPORT 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: in.dlink.com

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

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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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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

香港網站：<http://www.dlink.com.hk>

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

服务热线：4006-828-828

周一至周日：9:00-18:00

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>

Registration Card

All Countries and Regions Excluding USA

Print, type or use block letters.

Your name: Mr./Ms _____

Organization: _____ Dept. _____

Your title at organization: _____

Telephone: _____ Fax: _____

Organization's full address: _____

Country: _____

Date of purchase (Month/Day/Year): _____

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

(* Applies to adapters only)

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 ?

☐XNS/IPX ☐TCP/IP ☐DECnet ☐Others _____

4. What network operating system(s) does your organization use ?

☐D-Link LANsmart ☐Novell NetWare ☐NetWare Lite ☐SCO Unix/Xenix ☐PC NFS ☐3Com 3+Open ☐Cisco Network
☐Banyan Vines ☐DECnet Pathwork ☐Windows NT ☐Windows 98 ☐Windows 2000/ME ☐Windows XP
☐Others _____

5. What network management program does your organization use ?

☐D-View ☐HP OpenView/Windows ☐HP OpenView/Unix ☐SunNet Manager ☐Novell NMS
☐NetView 6000 ☐Others _____

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 ☐Spreadsheet ☐Word processing ☐CAD/CAM
☐Database management ☐Accounting ☐Others _____

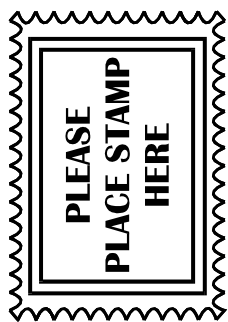
8. What category best describes your company?

☐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?



TO:

Three vertical lines for an address.

D-Link®