





Hardware Installation Guide

Product Model: DGS-3630 Series Layer 3 Stackable Managed Switch Release 2.00



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FCC Warning

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his expense.

CE Mark Warning

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

VCCI Warning

この装置は、クラスA情報技術装置です。この装置を家庭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.

BSMI Notice

此為甲類資訊技術設備,於居住環境中使用時,可能會造成射頻擾動,在此種情況下,使用者會被要求採取某些適當的對策。

Safety Compliance

Warning: Class 1 Laser Product:

- EN: When using a fiber optic media expansion module, never look at the transmit laser while it is powered on. Also, never look directly at the fiber TX port and fiber cable ends when they are powered on.
- FR: Ne regardez jamais le laser tant qu'il est sous tension. Ne regardez jamais directement le port TX (Tramsmission) à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

SFP (Mini-GBIC), XENPAK, and XFP Regulatory Compliance

Networks pluggable optical modules meet the following regulatory requirements:

- Class 1.
- IEC/EN60825-1:2007 2nd Edition or later, European Standard
- FCC 21 CFR Chapter 1, Subchapter J in accordance with FDA and CDRH requirements.
- Application of CE Mark in accordance with 2004/108/EEC EMC Directive and the 2006/95/EC Low Voltage Directives.
- UL and/or CSA registered component for North America.
- 47 CFR Part 15, Class A when installed into products.

Intended Readers

The DGS-3630 Series Layer 3 Stackable 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. For all practical reasons, all the switches in this series will simply be referred to as the Switch throughout this manual.

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 Command Line Interface (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.

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.

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• 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.
 Risques d'électrocution: Seul un personnel qualifié doit effectuer les procédures d'installation.
- Before servicing, disconnect all power cords to remove power from the device.
 Avant l'entretien, debranchez tous les cordons d'alimentation pour couper l'alimentation de l'appareil.
- 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。

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.

- 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.



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.

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.

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1. Introduction

Switch Description Package Contents Features

Switch Description

The D-Link DGS-3630 Series is a high performance member of the D-Link Layer 3 switch family. Ranging from 10/100/1000 Mbps edge switches to core gigabit switches, the switch family has been future-proof designed to provide fault tolerance, flexibility, port density, robust security, and maximum throughput with a user-friendly management interface for the networking professional.

This cost-effective Gigabit Switch provides an affordable solution for administrators to upgrade their networks to high speed Gigabit connections. The dedicated stacking ports offer up to 40G or 80G bi-directional bandwidth, which also makes the DGS-3630 Series suitable as a backbone solution for SMBs. The advanced ACL and user authentication functions on the Switch extend the network security coverage from core to edge. The unique D-Link Safeguard Engine protects the DGS-3630 Series from the threat of worms and viruses, thereby increasing overall reliability, serviceability, and availability.

The Switch has a combination of 1 Gbps RJ45/SFP ports and 10 Gbps SFP+ ports that may be used to connect various networking devices to the Switch or to physically stack the Switch with other switches in this series. The Small Form-factor Portable (SFP) combo ports are used with fiber-optical transceiver cabling in order to uplink various other networking devices for a gigabit link that may span great distances.

The D-Link DGS-3630 Series includes the following switches:

- DGS-3630-28TC supports twenty RJ45 ports (10/100/1000 Mbps), four Combo RJ45/SFP ports (10/100/1000 Mbps and 100/1000 Mbps), and four SFP+ ports (10G).
- DGS-3630-28SC supports twenty SFP ports (100/1000 Mbps), four Combo RJ45/SFP ports (10/100/1000 Mbps and 100/1000 Mbps), and four SFP+ ports (10G).
- **DGS-3630-28PC** supports twenty RJ45 PoE ports (10/100/1000 Mbps), four Combo RJ45 PoE/SFP ports (10/100/1000 Mbps and 100/1000 Mbps), and four SFP+ ports (10G).
- DGS-3630-52TC supports forty-four RJ45 ports (10/100/1000 Mbps), four Combo RJ45/SFP ports (10/100/1000 Mbps and 100/1000 Mbps), and four SFP+ ports (10G).
- **DGS-3630-52PC** supports forty-four RJ45 PoE ports (10/100/1000 Mbps), four Combo RJ45 PoE/SFP ports (10/100/1000 Mbps and 100/1000 Mbps), and four SFP+ ports (10G).

The D-Link License Management System (DLMS) is used to upgrade the software features available on the Switch. One of three DLMS licenses can be installed on the Switch to allow it to operate in either the Standard Image (SI) mode, Enhanced Image (EI) mode, or the MPLS Image (MI) mode. The MI mode includes all the features available in the EI mode and adds additional features specifically tailored for telecommunication applications. The EI mode includes all the features available in the SI mode and adds additional core Layer 3 features.

Package Contents

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

- One DGS-3630 Series switch.
- One Quick Installation Guide.
- One AC power cord.
- One console cable (RJ45 to RS-232).
- One console cable (USB to mini-USB).
- One rack mounting kit (two brackets and screws).
- Four rubber feet with adhesive backing.
- One power cord retainer set.

One CD containing the Web UI Reference Guide, CLI Reference Guide, D-View module, and additional software.

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

Features

This switch is packed with an abundance of networking features that span inside and outside of the traditional Layer 3 framework. The list below highlights the significant protocols and features supported by this switch.



NOTE: Software features mentioned in this document are based on the Switch running on the most comprehensive software license available. Refer to **Switch Description** on page 8 for more information about **DLMS**.

Features that can be found on this switch are:

- D-Link License Management System (DLMS)
- Virtual Stacking. D-Link Single IP Management (SIM)
- Physical Stacking, using the SFP+ ports with 80G (full-duplex) in Linear and Ring topologies
- Jumbo Frames (12 KBytes)
- Spanning Tree Protocol (STP, RSTP, and MSTP)
- Ethernet Ring Protection Switching (ERPS)
- Link Aggregation
- Mirroring (Port Mirroring, VLAN Mirroring, Flow-based (ACL) Mirroring, and RSPAN)
- Loopback Detection (LBD)
- L2 Protocol Tunneling
- Flex Link
- iSCSI Awareness
- IGMP Snooping (Version 1, 2, and 3)
- MLD Snooping (Version 1 and 2)
- PIM Snooping
- Priority-based Flow Control (PFC) on 10G ports
- 802.1Q VLAN, Port-based VLAN, 802.1v Protocol-based VLAN, MAC-based VLAN, Subnet-based VLAN, Voice VLAN, Surveillance VLAN, Private VLAN, Asymmetric VLAN, VLAN Trunking, and GVRP
- Double VLAN (Q-in-Q), and Selective Q-in-Q, VLAN Translation
- ISM VLAN (Multicast VLAN)
- Gratuitous ARP
- ARP Proxy
- IPv6 Neighbor Discovery (ND)

- IPv6 Tunneling
- Virtual Router Redundancy Protocol (VRRPv2/VRRPv3)
- Equal-Cost Multi-Path Route (ECMP)
- Policy-based Route (PBR)
- Route Preference Setting
- Route Redistribution
- Bidirectional Forwarding Detection (BFD)
- Routing Information Protocol (RIPv1/RIPv2), and RIPng
- Open Shortest Path First (OSPFv2/OSPFv3)
- Border Gateway Protocol (BGP) IPv4/IPv6
- Intermediate System to Intermediate System (IS-IS) IPv4/IPv6
- Internet Group Management Protocol (IGMP v1/IGMPv2/IGMPv3), and IGMP Proxy
- SSM Mapping IPv4/IPv6
- Multicast Listener Discovery (MLDv1/MDLv2), and MLD Proxy
- Distance Vector Multicast Routing Protocol (DVMRPv3)
- Protocol Independent Multicast (DM, SM, SSM and Sparse-Dense)
- Multi-Protocol Label Switching (MPLS), LDP, VPWS, VPLS, BGP/MPLS VPN, VRF-Lite, and MPLS OAM
- Class of Service (CoS)
- Two-rate Three-color Marker (trTCM)
- Policy Map (Remark 802.1p priority, Remark ToS/DSCP, Rate Limiting, and Time-based QoS)

- Queue Handling: Strict Priority Queue (SPQ), Weighted Round Robin (WRR), and Weighted Deficit Round Robin (WDRR)
- Congestion Control: Weighted Random Early Detection (WRED), Port-based Bandwidth Control, Flow-based bandwidth Control, and Queue-based Bandwidth Control
- Access Control List (ACL): IP Access List, IPv6 Access List, Time-based ACL, and CPU Interface Filtering
- Secure Shell (SSHv2) IPv4/IPv6
- Secure Sockets Layer (TLS1.0/TLS1.1/TLS1.2) IPv4/IPv6
- Port Security
- Broadcast, Multicast, and Unicast Storm Control
- Traffic Segmentation
- IP-MAC-Port Binding (IMPB)
- IP Source Guard (IPv4/IPv6)
- DHCP Snooping
- IPv6 Snooping
- Dynamic ARP Inspection (DAI)
- DHCPv6 Guard
- IPv6 Route Advertisement (RA) Guard
- IPv6 ND Inspection
- Duplicate Address Detection (DAD)
- D-Link Safeguard Engine
- Layer 3 Control Packet Filtering
- NetBIOS/NetBEUI Filtering
- DHCP Server Screening (IPv4/IPv6)
- DHCP Client Filtering
- ARP Spoofing Prevention
- BPDU Attack Protection
- DoS Attack Prevention
- Authentication, Authorization, and Accounting (AAA)
- RADIUS/TACACS+ Accounting (IPv4/IPv6)
- 802.1X Network Access Control
- Web-based Access Control (WAC)
- MAC-based Access Control (MAC)
- Compound Authentication
- Guest VLAN
- Microsoft[®] NAP Support (IPv4/IPv6)
- Trusted Host activated via ACL
- Cable Diagnostics
- 802.3ah Ethernet Link OAM (Dying Gasp on 10G ports)

- 802.1ag Connectivity Fault Management (CFM)
- Y.1731 OAM
- Optical Transceiver Digital Diagnostic Monitoring (DDM)
- D-Link Unidirectional Link Detection (DULD)
- Network Time Protocol (NTP) IPv4/IPv6
- Simple Network Time Protocol (SNTP) IPv4/IPv6
- Precision Time Protocol (PTP)
- Link Layer Discovery Protocol (LLDP), and LLDP-MED
- User Account Privilege for Management Access
- Command Line Interface (CLI)
- Simple Network Management Protocol (SNMPv1/SNMPv2c/SNMPv3) IPv4/IPv6
- Remote Network MONitoring (RMONv1/RMONv2)
- SNMP Trap
- Web User Interface (Web UI)
- D-Link Discover Protocol (DDP), and D-Link Network Assistant (DNA)
- DHCP Server and Client, and DHCP Autoconfiguration (IPv4/IPv6)
- DHCP Relay (IPv4/IPv6)
- Telnet Server and Client
- TFTP Client (IPv4/IPv6)
- FTP Client (IPv4/IPv6)
- Secured FTP (SFTP) Server/Client (IPv4/IPv6)
- Remote Copy Protocol (RCP) IPv4
- System Log and Command Logging
- SMTP (IPv4/IPv6)
- DNS Resolver and Relay (IPv4/IPv6)
- Multiple Image and Configuration, and Flash File System (FFS)
- Password Recovery and Encryption
- Debug Command
- CPU and Port Utilization Monitoring, and Packets Counter
- Trap and Log Severity Control
- Traceroute and Ping (IPv4/IPv6)
- Microsoft[®] Network Load Balancing (NLB)
- sFlow (IPv4/IPv6)
- Management Information Base (MIBs) for MIBII, Bridge MIB, SNMPv2 MIB, RMON MIB, RMONv2 MIB, Ether-like MIB, 802.3 MAU MIB, 802.1p MIB, IF MIB, RADIUS Authentication

Client MIB, RADIUS Accounting Client MIB, Ping & TRACEROUTE MIB, IPv6 MIB, ICMPv6 MIB, Entity MIB, VRRP MIB, RIPv2 MIB, OSPF MIB, IPv4 Multicast Routing MIB, PIM MIB for IPv4, IP Forwarding Table MIB, IPv6 SNMP MGMT Interface MIB, DDM MIB, LLDP-MED MIB, Private MIB, and D-Link Zone Defense.

2. Hardware Components

This chapter describes the front, rear, and side panel components of all switches in the series.

DGS-3630-28TC Switch DGS-3630-28SC Switch DGS-3630-28PC Switch DGS-3630-52TC Switch DGS-3630-52PC Switch

DGS-3630-28TC Switch

Front Panel Components

The front panel of DGS-3630-28TC features a variety of LED indicators and ports.

D-Link	MIGMT		21F	100M ● 23F 1003M ● 25	1000M ● Link ⊕ Act
Conside Sing USS Faster MART Faster MART					

Figure 2-1 Front panel view of the DGS-3630-28TC

Ports that can be found on the front panel of this switch are listed in the table below.

Port	Description
Alarm	The RJ45 (8 pins) Alarm port provides an external alarm detection. The Switch will send out the traps and logs when two of the pins are shorted among the pair.
USB	Inserting a flash drive into the USB 2.0 Type-A port provides an additional storage space for portable firmware images and configuration files that can be copied to and from the NVRAM of the Switch.
MGMT	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.
Console (RJ45)	The RJ45 console port can be used to connect to the Command Line Interface (CLI) of the Switch for configuration, management, and monitoring. This port uses a special console cable (included in this package) with a DB9 interface to connect the Switch to the serial port (COM) of the PC.
Console (Mini-USB)	The Mini-USB console port can be used to connect to the CLI of the Switch for configuration, management, and monitoring.
10/100/1000 Mbps RJ45 Ports	The Switch is equipped with 20 RJ45 Ethernet ports. These ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds.
Combo RJ45/SFP Ports	The Switch is equipped with 4 combo ports that can either operate as RJ45 Ethernet ports or SFP ports. The RJ45 ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds. The SFP ports can operate at 100 Mbps and 1 Gbps wire-speeds and support a wide collection of SFP transceivers.
10 Gigabit SFP+ Ports	The Switch is equipped with 4 SFP/SFP+ ports. These ports can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

For a complete list of SFP/SFP+ transceivers that are compatible with this switch, refer to the SFP Ports and SFP+ Ports sections in Appendix A - Technical Specifications.

LED Indicators

Located on the front panel of this switch are LED indicators: Power, Console, RPS, Fan Err, USB, MGMT, Link/Act indicators for all the ports, and Stack ID.





LED	Description
Power	This LED will light solid green after the Switch has been powered on successfully. This LED will be off when the Switch is no longer receiving power (i.e. powered off).
Console	This LED will light solid green when the RJ45 console port is active. The LED will light solid amber when the mini-USB console port is active. This LED will be off when both console ports are not active.
RPS	This LED will light green when the Redundant Powers Supply is in use. This LED will be off when the RPS is not in use.
Fan Err	This LED will light solid red when the fan fails. This LED will be off when the fan is operating normally.
USB	 This LED will light solid green if a USB flash drive is plugged in. This LED will blink green when the Switch is reading or writing data to and from the USB drive. This LED will be off when no USB drive is plugged into the USB port. This LED will light solid red when a USB drive failure has been detected.
MGMT	This LED will light solid green after a link to the MGMT port was successfully established. This LED will blink when activity on this port is taking place. This LED will be off when there is no link present or when this interface was shut down from within the Switch's configuration.
Link/Act LEDs	The Switch has LED indicators for Link and Activity. RJ45 Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 10/100 Mbps Ethernet device on any of the RJ45 ports. The LED will blink green when a 1000 Mbps port is active or blink amber when a 10/100 Mbps port is active. The LED will be off when there is no link or activity.
	SFP Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 100 Mbps Ethernet device on any of the SFP ports. The LED will blink green when a 1000 Mbps port is active or blink amber when a 100 Mbps port is active. The LED will be off when there is no link or activity.
	SFP+ Ports: This LED will light solid green when there is a connection (or link) to a 10 Gbps Ethernet device or solid amber when there is a connection (or link) to a 1 Gbps Ethernet device at any at any of the SFP+ ports. The LED will blink green when a 10 Gbps port is active or blink amber when a 1 Gbps port is active. The LED will be off when there is no link or activity.
Stack ID	This 7-segment LED can display numbers from 1 to 9 and the following letters H, h, E, and G. The stacking ID (1 to 9) can be assigned manually by the user or automatically by the system.

LED	Description
	The letter 'H' will be displayed if this switch is the master switch in the stack.
	The letter 'h' will be displayed if this switch is the backup master switch in the stack.
	The letter 'E' will be displayed if there was an error in the system's self-test.
	The letter 'G' will be displayed when the Safeguard engine entered the exhausted mode .

Please refer to the "LED Indicators" section in the Appendix A - Technical Specifications for more LED information.

Rear Panel Components

The rear panel of this switch features a security lock, a GND, an AC power connector, a power cord retainer hole, and an outlet for an external redundant power supply.

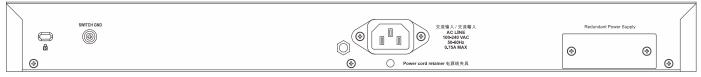


Figure 2-3 Rear panel view of the DGS-3630-28TC

Component	Description
Security Lock	Provide a Kensington-compatible security lock 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.
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.
AC Power Connector	The AC power cord with a three-pronged AC power connector 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.
Redundant Power Supply	An optional external RPS can be plugged into the RPS port found on the rear panel of switches in this series. When the internal power fails, this optional external RPS will supply power to the Switch immediately and automatically.

Components that can be found on the rear panel of this switch are listed in the table below.

Side Panel Components

The side panels of this switch contain heat vents, fans, and rack-mounting screw holes. The heat vents are used to dissipate internal heat and facilitate internal air circulation. Do not block these openings. Leave at least 4 inches of space at the sides of the Switch for proper ventilation. Without proper heat dissipation and air circulation, system components might overheat which could lead to system failure or even severely damaged components.

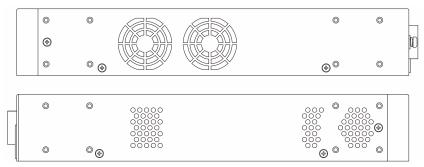


Figure 2-4 Side panels of the DGS-3630-28TC

DGS-3630-28SC Switch

Front Panel Components

The front panel of DGS-3630-28SC features a variety of LED indicators and ports.

D-Link		1771 1781 1791 1200 21F 22F 22F 24F	2717 2277 2277 2477 18/10304 ● 1020040	k ⊕ Act
Consult res use Faster Horr DGS-3630-285C				Nack ID

Figure 2-5 Front panel view of the DGS-3630-28SC

Ports that can be found on the front panel of this switch are listed in the table below.

Port	Description
Alarm	The RJ45 (8 pins) Alarm port provides an external alarm detection. The Switch will send out the traps and logs when two of the pins are shorted among the pair.
USB	Inserting a flash drive into the USB 2.0 Type-A port provides an additional storage space for portable firmware images and configuration files that can be copied to and from the NVRAM of the Switch.
МGМТ	The RJ45 MGMT port is an IP-based, 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.
Console (RJ45)	The RJ45 console port can be used to connect to the CLI of the Switch for configuration, management, and monitoring. This port uses a special console cable (included in this package) with a DB9 interface to connect the Switch to the serial port (COM) of the PC.
Console (Mini-USB)	The Mini-USB console port can be used to connect to the CLI of the Switch for configuration, management, and monitoring.
100/1000 Mbps SFP Ports	The Switch is equipped with 20 SFP ports. These ports can operate at 100 Mbps and 1 Gbps wire-speeds.
Combo RJ45/SFP Ports	The Switch is equipped with 4 combo ports that can either operate as RJ45 Ethernet ports or SFP ports. The RJ45 ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds. The SFP ports can operate at 100 Mbps and 1 Gbps wire-speeds and support a wide collection of SFP transceivers.
10 Gigabit SFP+ Ports	The Switch is equipped with 4 SFP/SFP+ ports. These ports can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

For a complete list of SFP/SFP+ transceivers that are compatible with this switch, refer to the SFP Ports and SFP+ Ports sections in Appendix A - Technical Specifications.

LED Indicators

Located on the front panel of this switch are LED indicators: Power, Console, RPS, Fan Err, USB, MGMT, Link/Act indicators for all the ports, and Stack ID.

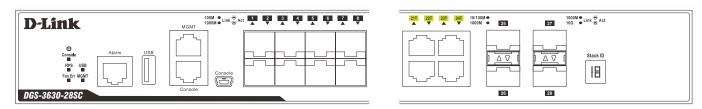


Figure 2-6 LED indicators for the DGS-3630-28SC

LED	Description
Power	This LED will light solid green after the Switch has been powered on successfully. This LED will be off when the Switch is no longer receiving power (i.e. powered off).
Console	This LED will light solid green when the RJ45 console port is active. The LED will light solid amber when the mini-USB console port is active. This LED will be off when both console ports are not active.
RPS	This LED will light green when the Redundant Powers Supply is in use. This LED will be off when the RPS is not in use.
Fan Err	This LED will light solid red when the fan fails. This LED will be off when the fan is operating normally.
USB	This LED will light solid green if a USB flash drive is plugged in.This LED will blink green when the Switch is reading or writing data to and from the USB drive.This LED will be off when no USB drive is plugged into the USB port.This LED will light solid red when a USB drive failure has been detected.
MGMT	This LED will light solid green after a link to the MGMT port was successfully established.This LED will blink when activity on this port is taking place.This LED will be off when there is no link present or when this interface was shut down from within the Switch's configuration.
Link/Act LEDs	The Switch has LED indicators for Link and Activity. RJ45 Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 10/100 Mbps Ethernet device on any of the RJ45 ports. The LED will blink green when a 1000 Mbps port is active or blink amber when a 10/100 Mbps port is active. The LED will be off when there is no link or activity. SFP Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 1000 Mbps Ethernet device or blink amber when a 100 Mbps port is active. The LED will be off when there is no link or activity. SFP+ Ports: This LED will light solid green when there is a connection (or link) to a 100 Gbps Ethernet device or solid amber when a 100 Mbps port is active. The LED will be off when there is no link or activity. SFP+ Ports: This LED will light solid green when there is a connection (or link) to a 10 Gbps Ethernet device or solid amber when there is a connection (or link) to a 1 Gbps Ethernet device or solid amber when there is a connection (or link) to a 1 Gbps Ethernet device or solid amber when there is a connection (or link) to a 1 Gbps Ethernet device at any at any of the SFP+ ports. The LED will blink green when a 10 Gbps port is active or blink amber when a 1 Gbps port is active. The LED will be off when there is no link or activity.
Stack ID	This 7-segment LED can display numbers from 1 to 9 and the following letters H, h, E, and G. The stacking ID (1 to 9) can be assigned manually by the user or

LED	Description
	automatically by the system.
	The letter 'H' will be displayed if this switch is the master switch in the stack.
	The letter 'h' will be displayed if this switch is the backup master switch in the stack.
	The letter 'E' will be displayed if there was an error in the system's self-test.
	The letter 'G' will be displayed when the Safeguard engine entered the exhausted mode .

Please refer to the "LED Indicators" section in the Appendix A - Technical Specifications for more LED information.

Rear Panel Components

The rear panel of this switch features a security lock, a GND, an AC power connector, a power cord retainer hole, and an outlet for an external redundant power supply.

	SWITCH GND	文玉物人/交型輸入 ACL NA 100-240 VAC 100-240 VAC 100-240 VAC 100-240 VAC 100-240 VAC	Redundant f	Power Supply	
•		Power cord retainer 电源线夹具		(1

Figure 2-7 Rear Panel view of the DGS-3630-28SC

Component	Description
Security Lock	Provide a Kensington-compatible security lock 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.
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.
AC Power Receptacle	The AC power cord with a three-pronged AC power connector 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.
Redundant Power Supply	An optional external RPS can be plugged into the RPS port found on the rear panel of switches in this series. When the internal power fails, this optional external RPS will supply power to the Switch immediately and automatically.

Components that can be found on the rear panel of this switch are listed in the table below.

Side Panel Components

The side panels of this switch contain heat vents, fans, and rack-mounting screw holes. The heat vents are used to dissipate internal heat and facilitate internal air circulation. Do not block these openings. Leave at least 4 inches of space at the sides of the Switch for proper ventilation. Without proper heat dissipation and air circulation, system components might overheat which could lead to system failure or even severely damaged components.

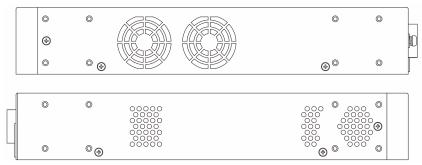


Figure 2-8 Side panels of the DGS-3630-28SC

DGS-3630-28PC Switch

Front Panel Components

The front panel of DGS-3630-28PC features a variety of LED indicators, ports and a Mode button.

D-Link	Sonose e Lestre e Print Pal Socie e Lestre e Print cit. Les l	151 160 151 152 153 154 153 156 A V A V A V A V A V	11721 11791 11791 12701 1217 12271 12377 12477 A V A V A V A V A V	21F	10000 @ 100000 @	19000 ● Link ☆ Act 190 ● Link ☆ Act	
Corosb Linded: Nede 102 1020 Pel Finite Walf DGS=3630-28PC							

Figure 2-9 Front panel view of the DGS-3630-28PC

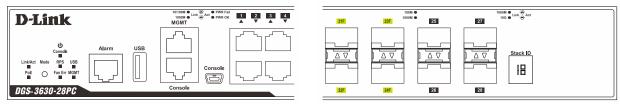
Ports that can be found on the front panel of this switch are listed in the table below.

Port	Description
Alarm	The RJ45 (8 pins) Alarm port provides an external alarm detection. The Switch will send out the traps and logs when two of the pins are shorted among the pair.
USB	Inserting a flash drive into the USB 2.0 Type-A port provides an additional storage space for portable firmware images and configuration files that can be copied to and from the NVRAM of the Switch.
MGMT	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.
Console (RJ45)	The RJ45 console port can be used to connect to the Command Line Interface (CLI) of the Switch for configuration, management, and monitoring. This port uses a special console cable (included in this package) with a DB9 interface to connect the Switch to the serial port (COM) of the PC.
Console (Mini-USB)	The Mini-USB console port can be used to connect to the CLI of the Switch for configuration, management, and monitoring.
10/100/1000 Mbps RJ45 PoE Ports	The Switch is equipped with 20 RJ45 PoE Ethernet ports. These ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds.
Combo RJ45 PoE/SFP Ports	The Switch is equipped with 4 combo ports that can either operate as RJ45 PoE Ethernet ports or SFP ports. The RJ45 ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds. The SFP ports can operate at 100 Mbps and 1 Gbps wire- speeds and support a wide collection of SFP transceivers.
10 Gigabit SFP+ Ports	The Switch is equipped with 4 SFP/SFP+ ports. These ports can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

For a complete list of SFP/SFP+ transceivers that are compatible with this switch, refer to the SFP Ports and SFP+ Ports sections in Appendix A - Technical Specifications.

LED Indicators

Located on the front panel of this switch are LED indicators: Power, Console, RPS, Fan Err, USB, MGMT, Link/Act and PoE indicators for all the ports, Link/Act and PoE indicators for mode selection, and Stack ID.





LED	Description
Power	This LED will light solid green after the Switch has been powered on successfully. This LED will be off when the Switch is no longer receiving power (i.e. powered off).
Console	This LED will light solid green when the RJ45 console port is active. The LED will light solid amber when the mini-USB console port is active. This LED will be off when both console ports are not active.
RPS	This LED will light green when the Redundant Powers Supply is in use. This LED will be off when the RPS is not in use.
Fan Err	This LED will light solid red when the fan fails. This LED will be off when the fan is operating normally.
USB	 This LED will light solid green if a USB flash drive is plugged in. This LED will blink green when the Switch is reading or writing data to and from the USB drive. This LED will be off when no USB drive is plugged into the USB port. This LED will light solid red when a USB drive failure has been detected.
MGMT	This LED will light solid green after a link to the MGMT port was successfully established. This LED will blink when activity on this port is taking place. This LED will be off when there is no link present or when this interface was shut down from within the Switch's configuration.
Link/Act LEDs	 The Switch has LED indicators for Link and Activity. RJ45 Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 10/100 Mbps Ethernet device on any of the RJ45 ports. The LED will blink green when a 1000 Mbps port is active or blink amber when a 10/100 Mbps port is active. The LED will be off when there is no link or activity. SFP Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when a 100 Mbps port is active. The LED will blink green when a 1000 Mbps Ethernet device or solid amber when a 100 Mbps port is active. The LED will blink green when a 1000 Mbps port is active or blink amber when a 100 Mbps port is active. The LED will blink green when a 1000 Mbps port is active or blink amber when a 100 Mbps port is active. The LED will blink green when a 1000 Mbps port is active or blink amber when a 100 Mbps port is active. The LED will be off when there is no link or activity. SFP+ Ports: This LED will light solid green when there is a connection (or link) to a 10 Gbps Ethernet device or solid amber when there is a connection (or link) to a 1 Gbps Ethernet device at any at any of the SFP+ ports. The LED will blink green when a 10 Gbps port is active or blink amber when a 1 Gbps port is active. The LED will blink green when a 10 Gbps port is active or blink amber when a 1 Gbps port is active. The LED will blink green when a 10 Gbps port is active or blink amber when a 1 Gbps port is active. The LED will be off when there is no link or activity.
РоЕ	This LED will light solid green when the corresponding ports are feeding power to

LED	Description
	the PoE devices plugged in.
	This LED will light solid amber when the port is in an error condition state.
	This LED will be off when the ports are not supplying power to the devices plugged into the ports.
Stack ID	This 7-segment LED can display numbers from 1 to 9 and the following letters H, h, E, and G. The stacking ID (1 to 9) can be assigned manually by the user or automatically by the system.
	The letter 'H' will be displayed if this switch is the master switch in the stack.
	The letter 'h' will be displayed if this switch is the backup master switch in the stack.
	The letter 'E' will be displayed if there was an error in the system's self-test.
	The letter 'G' will be displayed when the Safeguard engine entered the exhausted mode .

Please refer to the "LED Indicators" section in the Appendix A - Technical Specifications for more LED information.

Rear Panel Components

The rear panel of this switch features a security lock, a GND, an AC power connector, a power cord retainer hole, and an outlet for an external redundant power supply.

<u> </u>							
•	•	交流输入 / 交流输入 AC LINE 100-240 VAC 50-60Hz 6.0A MAX	(#)	Redundant	Power Supply		SWITCH GND
ļ						Σ1	

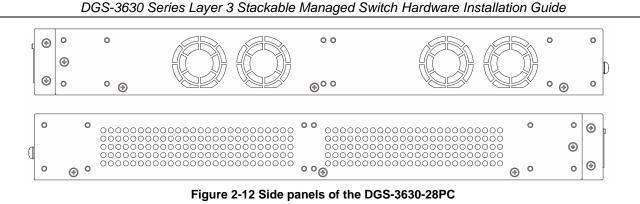
Figure 2-11 Rear panel view of the DGS-3630-28PC

Components that can be found on the rear panel of this switch are listed in the table below.

Component	Description
AC Power Connector	The AC power cord with a three-pronged AC power connector can be plugged into this receptacle to supply the Switch with 100-240 VAC power at 50-60 Hz.
Redundant Power Supply	An optional external RPS can be plugged into the RPS port found on the rear panel of switches in this series. When the internal power fails, this optional external RPS will supply power to the Switch immediately and automatically.
Security Lock	Provide a Kensington-compatible security lock 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.
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.

Side Panel Components

The side panels of this switch contain heat vents, fans, and rack-mounting screw holes. The heat vents are used to dissipate internal heat and facilitate internal air circulation. Do not block these openings. Leave at least 4 inches of space at the sides of the Switch for proper ventilation. Without proper heat dissipation and air circulation, system components might overheat which could lead to system failure or even severely damaged components.



DGS-3630-52TC Switch

Front Panel Components

The front panel of DGS-3630-52TC features a variety of LED indicators and ports.

NĂU NĂU NĂU NĂU NĂU NĂU NĂU NĂU NĂU NĂU 	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DGS-3630-52TC	10/1 103/	80M • Link 쓸 Act 1038 • 1038 • Link 쓸 Act

Figure 2-13 Front panel view of the DGS-3630-52TC

Ports that can be found on the front panel of this switch are listed in the table below.

Port	Description
10/100/1000 Mbps RJ45 Ports	The Switch is equipped with 44 RJ45 Ethernet ports. These ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds.
Combo RJ45/SFP Ports	The Switch is equipped with 4 combo ports that can either operate as RJ45 Ethernet ports or SFP ports. The RJ45 ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds. The SFP ports can operate at 100 Mbps and 1 Gbps wire-speeds and support a wide collection of SFP transceivers.
10 Gigabit SFP+ Ports	The Switch is equipped with 4 SFP/SFP+ ports. These ports can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

For a complete list of SFP/SFP+ transceivers that are compatible with this switch, refer to the SFP Ports and SFP+ Ports sections in Appendix A - Technical Specifications.

LED Indicators

Located on the front panel of this switch are LED indicators: Power, Console, RPS, Fan Err, Link/Act indicators for all the ports, and Stack ID.

D-Link

Stack ID

	45T 46T 47T 48T	45F 46F 47F 48F	49 50 51 52 A V A V
DGS-3630-52TC	10/100M ● Link 👸 Act	100M • 1000M •	1000M● 10G●Link ⊖ Act

Figure 2-14 LED indicators for the DGS-3630-52TC

LED	Description
Power	This LED will light solid green after the Switch has been powered on successfully. This LED will be off when the Switch is no longer receiving power (i.e. powered
	off).
Console	This LED will light solid green when the RJ45 console port is active.
	The LED will light solid amber when the mini-USB console port is active.
	This LED will be off when both console ports are not active.
RPS	This LED will light green when the Redundant Powers Supply is in use.
	This LED will be off when the RPS is not in use.
Fan Err	This LED will light solid red when the fan fails.
	This LED will be off when the fan is operating normally.
Link/Act LEDs	The Switch has LED indicators for Link and Activity.
	RJ45 Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 10/100 Mbps Ethernet device on any of the RJ45 ports. The LED will blink green when a 1000 Mbps port is active or blink amber when a 10/100 Mbps port is active. The LED will be off when there is no link or activity.
	SFP Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 100 Mbps Ethernet device on any of the SFP ports. The LED will blink green when a 1000 Mbps port is active or blink amber when a 100 Mbps port is active. The LED will be off when there is no link or activity.
	SFP+ Ports: This LED will light solid green when there is a connection (or link) to a 10 Gbps Ethernet device or solid amber when there is a connection (or link) to a 1 Gbps Ethernet device at any at any of the SFP+ ports. The LED will blink green when a 10 Gbps port is active or blink amber when a 1 Gbps port is active. The LED will be off when there is no link or activity.
Stack ID	This 7-segment LED can display numbers from 1 to 9 and the following letters H, h, E, and G. The stacking ID (1 to 9) can be assigned manually by the user or automatically by the system.
	The letter 'H' will be displayed if this switch is the master switch in the stack.
	The letter 'h' will be displayed if this switch is the backup master switch in the stack.
	The letter 'E' will be displayed if there was an error in the system's self-test.
	The letter ' G ' will be displayed when the Safeguard engine entered the exhausted mode .

Please refer to the "LED Indicators" section in the Appendix A - Technical Specifications for more LED information.

Rear Panel Components

The rear panel of this switch features a security lock, a GND, a USB port, LED indicators for USB and MGMT, an MGMT port, two console ports, an alarm port, an AC power connector, a power cord retainer hole, and an outlet for an external redundant power supply.

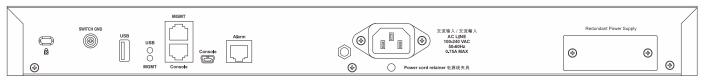


Figure 2-15 Rear panel view DGS-3630-52TC

Components that can be found on the rear panel of this switch are listed in the table below.

Component	Description	
Security Lock	Provide a Kensington-compatible security lock 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.	
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.	
AC Power Connector	The AC power cord with a three-pronged AC power connector 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.	
Redundant Power Supply	An optional external RPS can be plugged into the RPS port found on the rear panel of switches in this series. When the internal power fails, this optional external RPS will supply power to the Switch immediately and automatically.	
Alarm Port	The RJ45 (8 pins) Alarm port provides an external alarm detection. The Switch will send out the traps and logs when two of the pins are shorted among the pair.	
USB Port	Inserting a flash drive into the USB 2.0 Type-A port provides an additional storage space for portable firmware images and configuration files that can be copied to and from the NVRAM of the Switch.	
MGMT Port	The RJ45 MGMT port is an IP-based, 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.	
Console Port (RJ45)	The RJ45 console port can be used to connect to the CLI of the Switch for configuration, management, and monitoring. This port uses a special console cable (included in this package) with a DB9 interface to connect the Switch to the serial port (COM) of the PC.	
Console Port (Mini-USB)	The Mini-USB console port can be used to connect to the CLI of the Switch for configuration, management, and monitoring.	

LED Indicators

Located on the rear panel of this switch are LED indicators: USB and MGMT.

LED	Description
USB	This LED will light solid green if a USB flash drive is plugged in.
	This LED will blink green when the Switch is reading or writing data to and from the USB drive.
	This LED will be off when no USB drive is plugged into the USB port.
	This LED will light solid red when a USB drive failure has been detected.
MGMT	This LED will light solid green after a link to the MGMT port was successfully established.
	This LED will blink when activity on this port is taking place.
	This LED will be off when there is no link present or when this interface was shut down from within the Switch's configuration.

Please refer to the "LED Indicators" section in the Appendix A - Technical Specifications for more LED information.

Side Panel Components

The side panels of this switch contain heat vents, fans, and rack-mounting screw holes. The heat vents are used to dissipate internal heat and facilitate internal air circulation. Do not block these openings. Leave at least 4 inches of space at the sides of the Switch for proper ventilation. Without proper heat dissipation and air circulation, system components might overheat which could lead to system failure or even severely damaged components.

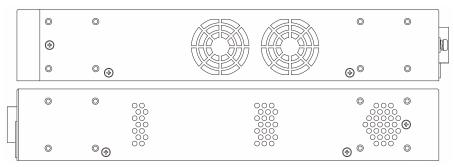


Figure 2-16 Side panels of the DGS-3630-52TC

DGS-3630-52PC Switch

Front Panel Components

The front panel of DGS-3630-52PC features a variety of LED indicators, ports and a Mode button.

	 401 401 401 H	44F 44F 477 44F 4	19 50 51 52 LinkiAct PoE
			Mode

Figure 2-17 Front panel view of the DGS-3630-52PC

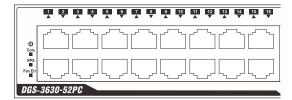
Port	Description
10/100/1000 Mbps RJ45 PoE Ports	The Switch is equipped with 44 RJ45 PoE Ethernet ports. These ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds.
Combo RJ45 PoE/SFP Ports	The Switch is equipped with 4 combo ports that can either operate as RJ45 PoE Ethernet ports or SFP ports. The RJ45 ports can operate at 10 Mbps, 100 Mbps, and 1 Gbps wire-speeds. The SFP ports can operate at 100 Mbps and 1 Gbps wire- speeds and support a wide collection of SFP transceivers.
10 Gigabit SFP+ Ports	The Switch is equipped with 4 SFP/SFP+ ports. These ports can operate at 1 Gbps and 10 Gbps wire-speeds and support a wide collection of SFP/SFP+ transceivers.

Ports that can be found on the front panel of this switch are listed in the table below.

For a complete list of SFP/SFP+ transceivers that are compatible with this switch, refer to the SFP Ports and SFP+ Ports sections in Appendix A - Technical Specifications.

LED Indicators

Located on the front panel of this switch are LED indicators: Power, Console, RPS, Fan Err, Link/Act and PoE indicators for all the ports, Link/Act and PoE indicators for mode selection, and Stack ID.



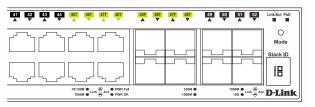


Figure 2-18 LED indicators for the DGS-3630-52PC

LED	Description
Power	This LED will light solid green after the Switch has been powered on successfully.
	This LED will be off when the Switch is no longer receiving power (i.e. powered off).
Console	This LED will light solid green when the RJ45 console port is active.
	The LED will light solid amber when the mini-USB console port is active.
	This LED will be off when both console ports are not active.
RPS	This LED will light green when the Redundant Powers Supply is in use.
	This LED will be off when the RPS is not in use.
Fan Err	This LED will light solid red when the fan fails.
	This LED will be off when the fan is operating normally.
Link/Act LEDs	The Switch has LED indicators for Link and Activity.
	RJ45 Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 10/100 Mbps Ethernet device on any of the RJ45 ports. The LED will blink green when a 1000 Mbps port is active or blink amber when a 10/100 Mbps port is active. The LED will be off when there is no link or activity.
	SFP Ports: This LED will light solid green when there is a connection (or link) to a 1000 Mbps Ethernet device or solid amber when there is a connection (or link) to a 100 Mbps Ethernet device on any of the SFP ports. The LED will blink green when a 1000 Mbps port is active or blink amber when a 100 Mbps port is active. The LED will be off when there is no link or activity.
	SFP+ Ports: This LED will light solid green when there is a connection (or link) to a 10 Gbps Ethernet device or solid amber when there is a connection (or link) to a 1 Gbps Ethernet device at any at any of the SFP+ ports. The LED will blink green when a 10 Gbps port is active or blink amber when a 1 Gbps port is active. The LED will be off when there is no link or activity.
РоЕ	This LED will light solid green when the corresponding ports are feeding power to the PoE devices plugged in.
	This LED will light solid amber when the port is in an error condition state.
	This LED will be off when the ports are not supplying power to the devices plugged into the ports.
Stack ID	This 7-segment LED can display numbers from 1 to 9 and the following letters H, h, E, and G. The stacking ID (1 to 9) can be assigned manually by the user or automatically by the system.
	The letter 'H' will be displayed if this switch is the master switch in the stack.
	The letter 'h' will be displayed if this switch is the backup master switch in the stack.
	The letter 'E' will be displayed if there was an error in the system's self-test.
	The letter 'G' will be displayed when the Safeguard engine entered the exhausted mode .

Please refer to the "LED Indicators" section in the Appendix A - Technical Specifications for more LED information.

Rear Panel Components

The rear panel of this switch features an AC power connector, an outlet for an external redundant power supply, a USB port, LED indicators for USB and MGMT, an MGMT port, two console ports, an alarm port, a security lock, and a GND.



Figure 2-19 Rear panel view DGS-3630-52PC

Components that can be found on the rear panel of this switch are listed in the table below.

Component	Description	
AC Power Connector	The AC power cord with a three-pronged AC power connector can be plugged into this receptacle to supply the Switch with 100-240 VAC power at 50-60 Hz.	
Redundant Power Supply	An optional external RPS can be plugged into the RPS port found on the rear panel of switches in this series. When the internal power fails, this optional external RPS will supply power to the Switch immediately and automatically.	
USB Port	Inserting a flash drive into the USB 2.0 Type-A port provides an additional storage space for portable firmware images and configuration files that can be copied to and from the NVRAM of the Switch.	
MGMT Port	The RJ45 MGMT port is an IP-based, 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.	
Console Port (RJ45)	The RJ45 console port can be used to connect to the CLI of the Switch for configuration, management, and monitoring. This port uses a special console cable (included in this package) with a DB9 interface to connect the Switch to the serial port (COM) of the PC.	
Console Port (Mini-USB)	The Mini-USB console port can be used to connect to the CLI of the Switch for configuration, management, and monitoring.	
Alarm Port	The RJ45 (8 pins) Alarm port provides an external alarm detection. The Switch will send out the traps and logs when two of the pins are shorted among the pair.	
Security Lock	Provide a Kensington-compatible security lock 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.	
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.	

LED Indicators

Located on the rear panel of this switch are LED indicators: USB and MGMT.

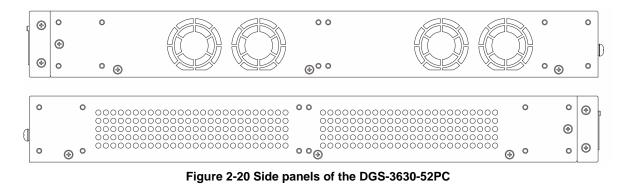
LED	Description
USB	This LED will light solid green if a USB flash drive is plugged in.
	This LED will blink green when the Switch is reading or writing data to and from the USB drive.
	This LED will be off when no USB drive is plugged into the USB port.
	This LED will light solid red when a USB drive failure has been detected.
MGMT	This LED will light solid green after a link to the MGMT port was successfully established.

LED	Description
	This LED will blink when activity on this port is taking place.
	This LED will be off when there is no link present or when this interface was shut down from within the Switch's configuration.

Please refer to the "LED Indicators" section in the Appendix A - Technical Specifications for more LED information.

Side Panel Components

The side panels of this switch contain heat vents, fans, and rack-mounting screw holes. The heat vents are used to dissipate internal heat and facilitate internal air circulation. Do not block these openings. Leave at least 4 inches of space at the sides of the Switch for proper ventilation. Without proper heat dissipation and air circulation, system components might overheat which could lead to system failure or even severely damaged components.



3. Installation

Installation Guidelines Installing the Switch without a Rack Installing the Switch in a Standard 19" Rack Installing Transceivers into the Transceiver Ports Power On (AC Power) Installing the Redundant Power Supply (RPS) Installing the RPS into a Rack-mount Chassis

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.

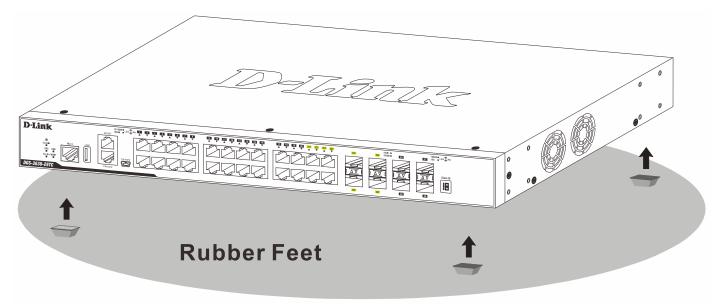


Figure 3-1 Attaching rubber feet to the Switch

Install the Switch on a sturdy, level surface that can support the weight of the Switch (see the **Weight** section in **Appendix A - Technical Specifications**.). 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 provided mounting brackets.

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

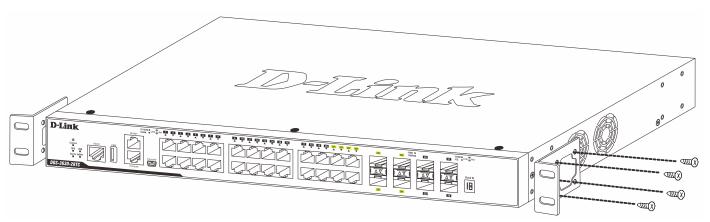


Figure 3-2 Attaching rack-mount brackets to the Switch

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

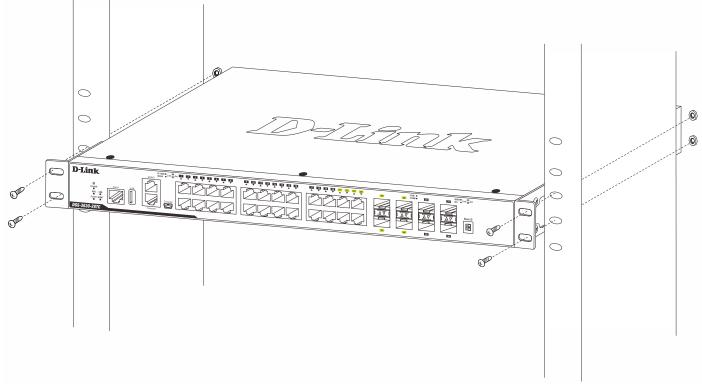


Figure 3-3 Installing the Switch in a Rack

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

Installing Transceivers into the Transceiver Ports

The Switch is equipped with Small Form-factor Pluggable (SFP) and Enhanced Small Form-factor Pluggable (SFP+) ports that can be used to connect various other 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 properly insert SFP+ transceivers into the Switch's SFP+ ports.

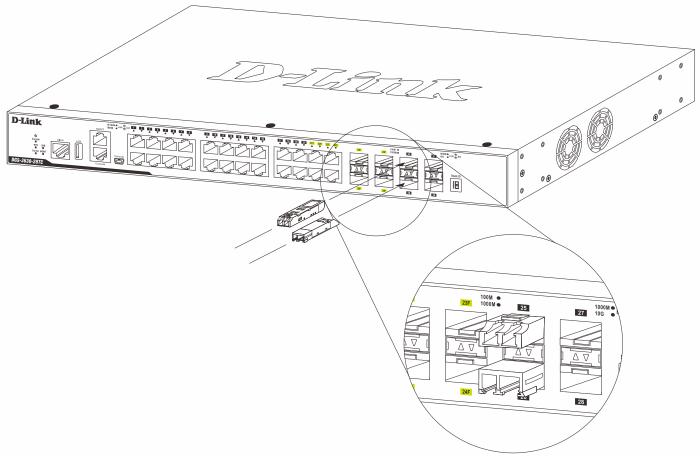


Figure 3-4 Inserting transceivers into the transceiver ports

The SFP+ ports also support other transceiver form factors like **SFP** and **SFP+** transceivers. A complete list of SFP/SFP+ transceivers, compatible with this switch, can be found the **SFP Ports** and **SFP+ Ports** sections in **Appendix A - Technical Specifications** at the end of this document.



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

Power On (AC Power)

Plug one end of the AC power cord into the power socket of the Switch and the other end into the local power source outlet. After the system is powered on, the LED will blink green to indicate that the system is booting up.

Power Failure (AC Power)

In the event of a power failure, just as a precaution, unplug the power cord from the Switch. After the power returns, plug the power cord back into the power socket of the Switch.

Installing Power Cord Retainer

To prevent accidental removal of the AC power cord, it is recommended to install the power cord retainer together with the power cord.



NOTE: The DGS-3630-28PC and DGS-3630-52PC do not support the installation of the power cord retainer.

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

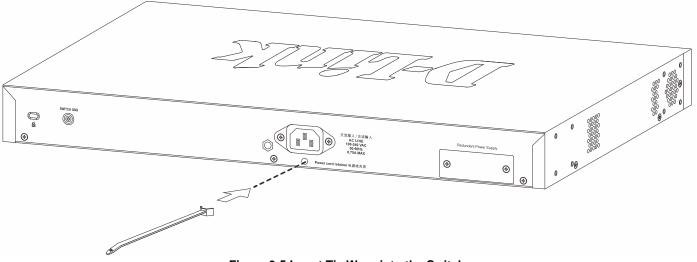


Figure 3-5 Insert Tie Wrap into the Switch

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

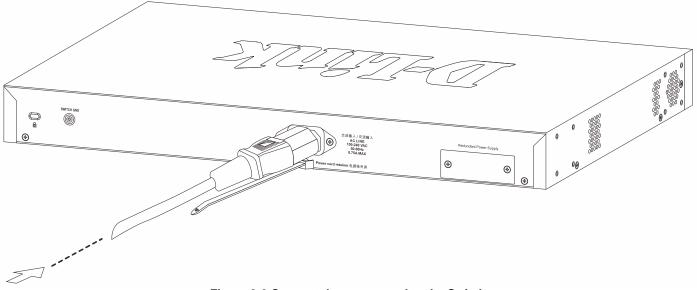


Figure 3-6 Connect the power cord to the Switch

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

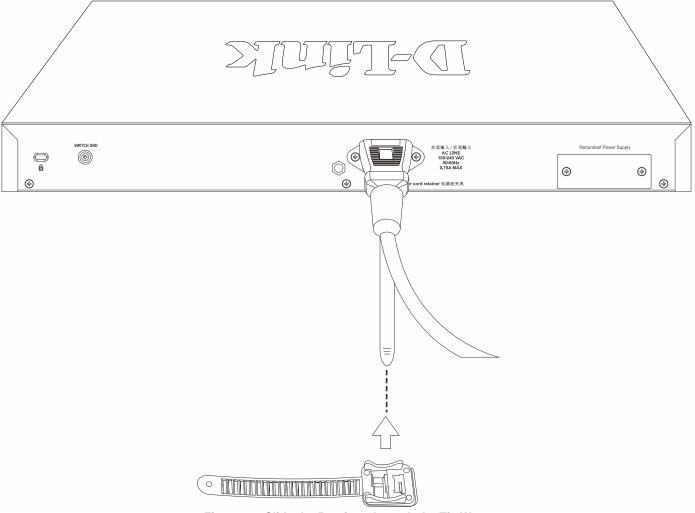


Figure 3-7 Slide the Retainer through the Tie Wrap

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

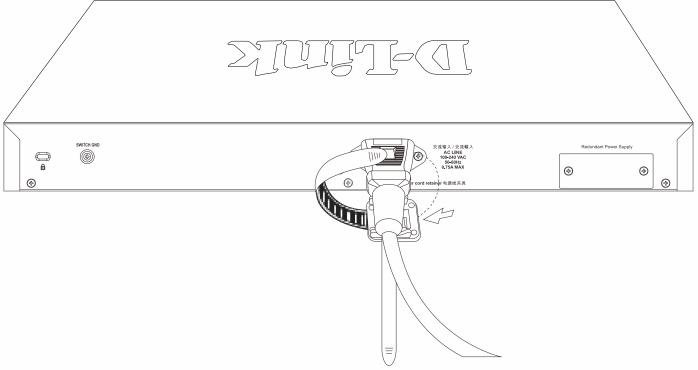
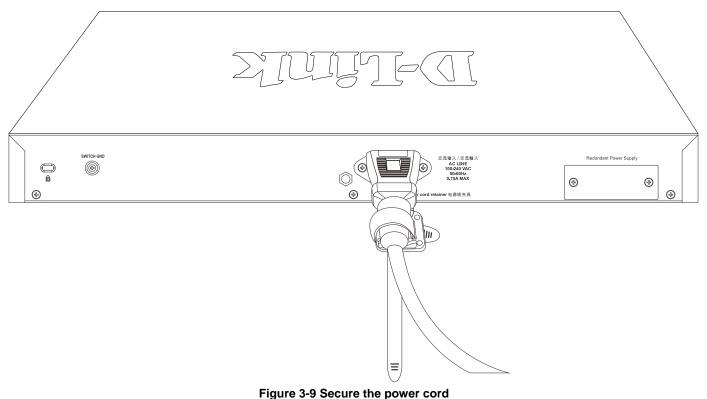


Figure 3-8 Circle around the power cord

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



Installing the Redundant Power Supply (RPS)

The Redundant Power Supply (RPS) is designed to conform to the wattage requirements of D-Link's Ethernet and Gigabit switches. It is an external RPS unit enclosed in solid metal case with sockets to connect AC or DC power sources on 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.



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



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.

DPS-500 Series Redundant Power Supply Unit

This RPS (**DPS-500A** and **DPS-500DC**) can be connected to the Switch's RPS port using a 14-pin DC power cable. A standard, three-pronged AC power cable connects the RPS to the main power source.

DGS-3630 Series Layer 3 Stackable Managed Switch Hardware Installation Guide

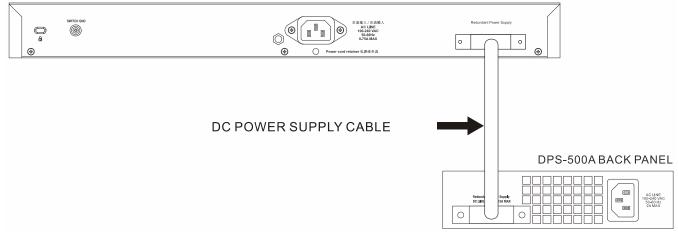


Figure 3–10 Connecting a DGS-3630 Series Switch to the DPS-500A

Remove the AC power cord from the AC power port of the Switch. Insert one end of the 14-pin DC power cable into the port on the switch and the other end into the RPS. Using a standard AC power cable, connect the RPS to the main AC power source. A green LED on the front of the RPS will glow 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.



NOTE: See the DPS-500A and DPS-500DC documentation for more information.



NOTE: The DPS-500A and DPS-500DC can only be used with the DGS-3630-28TC, DGS-3630-28SC, and DGS-3630-52TC.

Installing the RPS into a Rack-mount Chassis

The DPS-500 is a redundant power supply unit designed to conform to the voltage requirements of the switches being supported. The DPS-500 can both be installed into a DPS-800 rack mount unit.

The DPS-500 can only be used with the DGS-3630-28TC, DGS-3630-28SC, and DGS-3630-52TC. The DPS-700 can only be used with the DGS-3630-28PC and DGS-3630-52PC.

DPS-700

The DPS-700 is connected to the Master Switch using a 22-pin DC power cable. A standard, three-pronged AC power cable connects the redundant power supply to the main power source.

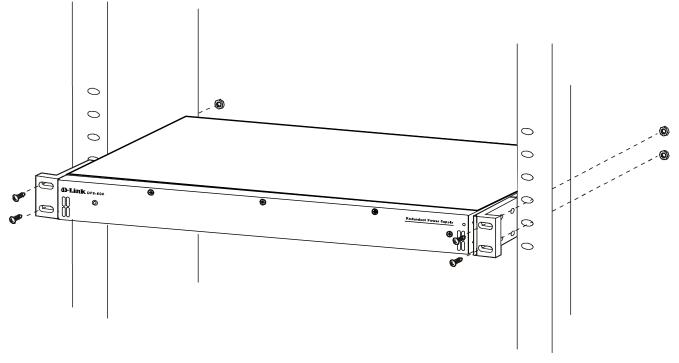


Figure 3-11 Front view of the DPS-700

- 1. Insert one end of the 22-pin DC power cable into the receptacle on the Switch and the other end into the Redundant Power Supply unit.
- 2. Using a standard AC power cable, connect the redundant power supply to the main AC power source. A green LED on the front of the DPS-700 will glow to indicate a successful connection.
- 3. Re-connect the Switch to the AC power source. The LED indicator will show that a redundant power supply is now in operation.
- 4. No configuration in the Switch's firmware is needed for this installation.



NOTE: See the RPS Quick Installation Guide for more information.

REAR PANEL OF DGS-3630-28PC

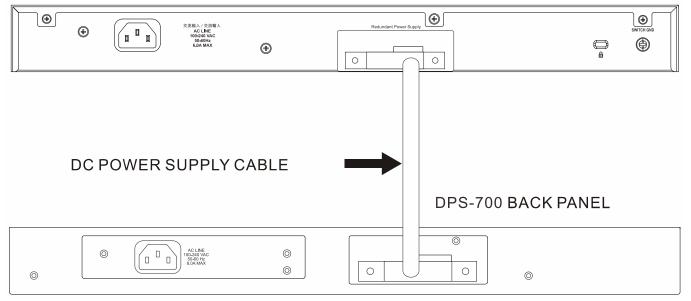


Figure 3-12 Rear view of the DPS-700 connected to a DGS-3120-24PC



CAUTION: Do not connect the DPS-700 to the DGS-3630-28PC/52PC by using the 14-pin DC power cable. It may cause damage when using the wrong DC power cable. ONLY use the 22-pin DC power cable.

DPS-800

The DPS-800 is a standard-size (1 standard unit in height) rack-mountable unit designed to hold up to two RPS units.



NOTE: This rack-mount chassis supports the following RPS units: DPS-500A and DPS-500DC.

The following diagram illustrates how a DPS-500A is installed into a DPS-800.

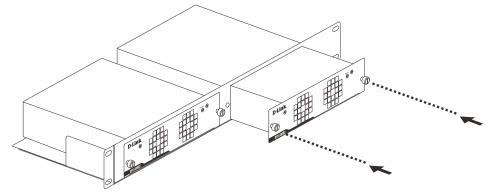


Figure 3–13 Install the DPS-500A in the DPS-800

The DPS-800 can be mounted into a standard 19" rack, as shown below.

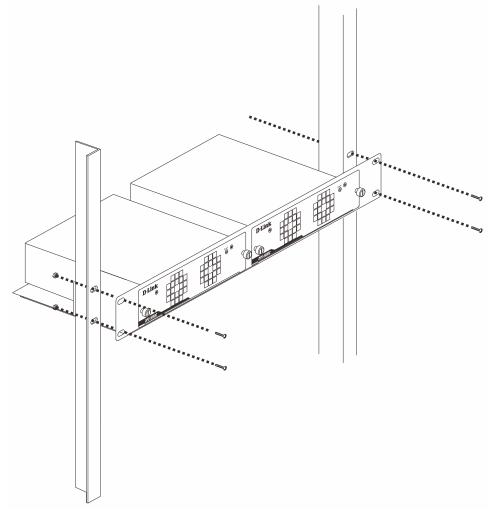


Figure 3–14 Install the DPS-800 in an Equipment Rack

4. Switch Connections

Switch to an End Node Switch to Another Switch Switch Stacking Switch to a Server

Switch to an 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 a 100/1000/10000 Mbps 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.

D-Link	19/1011 € Link ⊕ Act 1 2 3 4 5 8 7 3 10010 € Link ⊕ Act 1 2 4 7 4 7 4 7 4 7	177 151 151 150 27 <u>1</u> 27 <u>1</u> 27 <u>1</u> 27	100M • 21F 22F 1003M • 25	1001N ● Link ⊕ Act
Consta or use Faster Moorr DGS-3630-2870C				Such D
			RJ-45 Connector	

Figure 4-1 Connecting the Switch to an End Node

Switch to Another 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 switch port to the Switch using a twisted-pair Category 3, 4, or 5 UTP/STP cable.
- Connect a 100BASE-TX switch port to the Switch via a twisted-pair Category 5 UTP/STP cable.
- Connect a 1000BASE-T switch port to the Switch via a twisted pair Category 5e UTP/STP cable.
- Connect a switch supporting an optical fiber uplink to the Switch's SFP/SFP+ ports via fiber optical cabling.

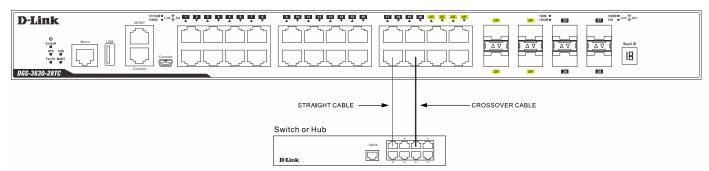


Figure 4-2 Connecting the Switch to another switch/hub

Switch Stacking

The DGS-3630 series supports stacking up to 9 switches together while being managed through one console connection on the master switch, or by an IP address through the MGMT port, or by multiple IP addresses through any of the RJ45/SFP/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 combo RJ45/SFP+ ports to scale and stack the Switches. This increases overall reliability, serviceability, and availability.

- Duplex Chain The Duplex Chain 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, then data transfer will
 be affected.
- **Duplex Ring** The Duplex Ring stacks switches in a ring or circle format where data can be transferred in two directions. This topology is very resilient due to the fact that, 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.

Switches in the series can be physically stacked using optical fiber cables connected to SFP+ transceivers, or Direct Attached Cables (DAC) with SFP+ connectors. Only the last 4 ports on the Switch can be used for physical stacking.

Physical stacking needs to be enabled and can be configured to support either a **2-port** or a **4-port** stacking configuration. When the **2-port** stacking configuration is used, a full-duplex speed of up to 40Gbps will be used between two switches. When the **4-port** stacking configuration is used, a full-duplex speed of up to 80Gbps will be used between two switches.

The figure below illustrates how switches can be stacked in a **Duplex Chain** formation using optical fiber cables connected to SFP+ transceivers or DAC with SFP+ connectors where the **2-port** stacking configuration is used.

D -Link	ECE ECE E77 E68 E69 ₽20 211 222 221 241 ▼	100M • 21F 23F 100CM • 25	1000M ● Link ⊕ Act
Constant South Search Search DGS-3630-281C			
D-Link Orgite South	Y Y		
D-Link	> >		
D-Link Oracle South	P P		Sacio
D-Link Const and the set of the			
D-Link Oracle South Table war DGS-3630-287C	$\begin{array}{c} \hline \begin{tabular}{c} \hline $		
D-Link Orgin Tager uger Tager uger DGS-36530-287C			Solution to the second
D-Link Orgin Instrumer DGS-36500-287C))		Start D Back D H
D-Link Contr South Second Se			1000 • tim * Art 1000 • tim *

Figure 4-3 Duplex Chain stacking topology (SFP+)

The figure below illustrates how switches can be stacked in a **Duplex Ring** formation using optical fiber cables connected to SFP+ transceivers or DAC with SFP+ connectors where the **2-port** stacking configuration is used.

D-Link	2011 191N ● 1001N ● Link ↔ Art ▼ 2017 1920N ● 225 1927 105 ● Link ↔ Art
Ø Aloren UEB Ø Gask Aloren UEB Ø Gask Image: Aloren Image: Aloren Ø Gask Image: Aloren Image: Aloren Image	
D-Link Const and Uild Failer wart DGS-3650-28TC	
DIAnt	287, 0084 ● 10094 ● 10094 ● 10094 ● 1009 ● Linn ⊕ krin
D-Link	
	atf 105HI ● 1
D-Link	
D-Link	241 1001H ● 1001H ● 1001H ● 1005H ● 1005H ● 1005H ● 1005
D'LINK	
DItest	317 0344 ● 10054 ● 10
D-Link Constant Atom USE Factor Weat DOS-36530-287C	
	387, 100 €
D-Link Consta Sauter Alarm Faster war DGS-3650-287C	
DIA	 10114 ● Linit ⊕ Act 7 701 701 12000 € E3
D-Link	
D-Link	287 100M ● 100 100M ● 100 100 100 100 100 100 100 100 100 1
D'LINK	

Figure 4-4 Duplex Ring stacking topology (SFP+)



NOTE: Stacking Input/Output 1 (SIO1) is a logical stacking port pair. SIO2 is also a logical stacking port pair. 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 a Server

The Switch is ideal for connecting to a network backbone, server, or server farm. The RJ45 ports operate at a speed of 10/100/1000 Mbps. The SFP ports operate at a speed of 100/1000 Mbps. The SFP+ ports operate at a speed of 1/10 Gbps.

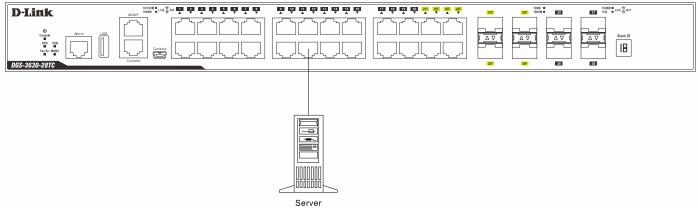


Figure 4-5 Connecting the Switch to a server

5. Switch Management

Management Options Connecting to the Console Port Connecting to the MGMT Port Connecting using SNMP

Management Options

This switch provides multiple access platforms that can be used to configure, manage, and monitor networking features available on this switch. Currently there are three management platforms available which are described below.

Command Line Interface (CLI)

This switch can be managed, out-of-band, by using the console port or the MGMT port on the front panel of the Switch. Alternatively, the Switch can also be managed, in-band, by using a Telnet connection to any of the LAN ports on the Switch. The command line interface provides complete access to all switch management features.

For more detailed information about the CLI, refer to the DGS-3630 Series CLI Reference Guide.

SNMP-based Management

The Switch can be managed with an SNMP-compatible console program. The Switch supports SNMP v1, SNMPv2c and SNMPv3. The 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.

Web User Interface (Web UI)

The Web UI can be accessed from any computer running web browsing software from its MGMT port, or LAN port when it is connected to any of the RJ45 or SFP/SFP+ ports. The Web UI on the Switch can also be accessed using an HTTPS (SSL) connection.

This management interface is a more graphical representation of the features that can be viewed and configured on this Switch. Most of the features available through the CLI can be accessed through the Web UI. Web browsers like Microsoft's Internet Explorer, Mozilla Firefox, or Google Chrome can be used.

For more detailed information about the Web UI, refer to the DGS-3630 Series Web UI Reference Guide.

Connecting to the Console Port

The front panel of the Switch provides an RJ45 and a mini-USB console port to connect a remote system for monitoring and configuring the Switch. Both ports require their respective cables included with the Switch, to establish the physical connection.



NOTE: When an active console connection is made to both the RJ45 console port and the mini-USB console port at the same time, the mini-USB console port will have higher priority.

Connecting to the RJ45 Console Port

To use the RJ45 console port, the following equipment is needed:

- A terminal or a computer with both an RS-232 serial port and terminal emulation software.
- A console cable with a male DB9 connector on one end and an RJ45 connection on the other. This cable should be included with the Switch. It establishes the physical connection to the console port.

To connect the RJ45 console port on the Switch to the computer:

• Connect the male DB9 connector on the console cable (shipped with the Switch) to the RS-232 serial port on the computer running terminal emulation software then insert the RJ45 connector into the RJ45 console port on the front of the Switch.

To configure the terminal emulation software as follows:

- Select the appropriate serial port (COM1 or COM2).
- Set the data rate to 115200 baud.
- Set the data format to 8 data bits, 1 stop bit, and no parity.
- Set flow control to none.

COM1	L Properties	
Port	t Settings	
	Bits per second: 115200	
	Data bits: 8	
	Parity: None	
	Stop bits: 1	
	Flow control: None	
	Restore Defaults	
	OK Cancel Apply	

Figure 5-1 COM Port Configuration

To be able to view the boot procedure, the Switch needs to be rebooted. The simplest way, at this stage, to reboot the Switch is to unplug and re-insert the power cable from and into the power receptacle on the back of the Switch. After correctly configuring the terminal settings and re-inserting the power cable, the boot procedure will appear in the terminal.

Boot Procedure V2.0	00.001
Power On Self Test	100 %
MAC Address : F0-7D-68-36-30-00 H/W Version : A1	
Please Wait, Loading 2.00.008 Runtime Image	
Starting runtime image Device Discovery Configuration init	100 % 100 %

After the boot sequence has been completed, the console login screen will be displayed.

Connecting to the Mini-USB Console Port

To use the mini-USB console port, the following equipment is needed:

- A terminal or a computer with a USB 2.0 port and the ability to emulate a terminal.
- A console cable with a 5-pin mini-B male connector on one end and a USB Type A male connecter on the other. This cable should be included with the Switch. It establishes the physical connection to the console port.
- Software to emulate a virtual COM port to be used in the terminal emulation software. This software can be found on the CD included in this package and can only be used on a Microsoft[®] Windows operating system.

To connect the mini-USB console port on the Switch to the computer:

- 1. Install the software to emulate a virtual COM port on the computer.
- 2. Connect the USB Type A male connecter on the console cable (shipped with the Switch) to the USB port on the computer, then insert the mini-B male connector into the mini-USB console port on the front of the Switch.

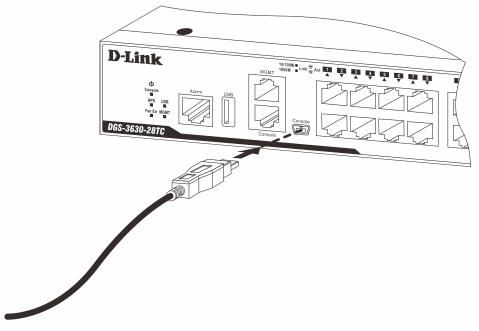


Figure 5-2 Connect Mini-USB Console Port

3. Check the serial port number in Device Manager. The name of the virtual COM port is **Prolific USB-to-Serial Comm Port**.

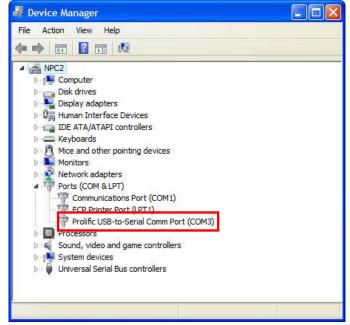


Figure 5-3 Device Manager

Set the terminal emulation software as follows:

- Select the serial port that belongs to the virtual COM port.
- Set the data rate to 115200 baud.
- Set the data format to 8 data bits, 1 stop bit, and no parity.
- Set flow control to none.

COM3 Properties	? 💈
Port Settings	
Bits per second: 115200	•
Data bits: 8	_
Parity: None	
Stop bits: 1	_
Flow control: None	•
	Restore Defaults
OK Can	cel Apply

Figure 5-4 COM Port Configuration

To be able to view the boot procedure, the Switch needs to be rebooted. The simplest way, at this stage, to reboot the Switch is to unplug and re-insert the power cable from and into the power receptacle on the back of the Switch. After correctly configuring the terminal settings and re-inserting the power cable, the boot procedure will appear in the terminal.

Boot Procedure V2.0	00.001
Power On Self Test	100 %
MAC Address : F0-7D-68-30-36-00 H/W Version : A1	
Please Wait, Loading 2.00.008 Runtime Image UART init Starting runtime image	
Device Discovery Configuration init	

After the boot sequence has been completed, the console login screen will be displayed.



NOTE: After a connection to the mini-USB console port was deactivated due to inactivity, it cannot be reactivated through the CLI or Web UI. The mini-USB console cable needs to be removed from the port and then re-inserted to establish a new connection.

Connecting to the Switch for the First Time

The Switch supports user-based security that can prevent unauthorized users from accessing the Switch or changing its configuration. This section will explain how to log into the Switch's Command Line Interface via the out-of-band console connection.

Upon initial connection to the Switch, the login screen appears (see example below).

DGS-3630-28PC Gigabit Ethernet Switch

Command Line Interface Firmware: Build 2.00.008 Copyright(C) 2017 D-Link Corporation. All rights reserved.

Switch>

By default, there is no **Username** and **Password** configured in the account settings of this switch. This will allow the user to simply connect to this Switch for the first time by pressing the '**Enter**' key. After pressing **Enter**, access will be given to enter commands after the command prompt (**Switch**>) appears.



NOTE: The first user automatically gets Administrator level privileges. At least one Administratorlevel user account must be created for the Switch.



NOTE: It is highly recommended to create a user account containing a username and a password on the Switch to prevent unauthorized access to the management interface.

Creating a User Account

One of the first and most important tasks will be to create user accounts. Logging in using a predefined administratorlevel username will give the user privileged access to the Switch's management software. Also this will prevent unauthorized access to the Switch and record the passwords for future reference.

An example to create an administrator-level account for the Switch called 'NewUser':

```
Switch>enable
Switch#configure terminal
Switch(config)#username NewUser password 12345
Switch(config)#username NewUser privilege 15
Switch(config)#line console
Switch(config-line)#login local
Switch(config-line)#end
Switch#
```

In the example above:

- 1. At the CLI command prompt, enter the enable command to enter the Privileged EXEC Mode. Press Enter.
- 2. Enter the configure terminal command to enter the Global Configuration Mode. Press Enter.

- 3. Enter the **username NewUser password 12345** command. Press **Enter**. This will create a user account with the username of NewUser and a password of 12345.
- 4. Enter the **username NewUser privilege 15** command. Press **Enter**. This will configure this user account to have **Administrative** (15) privileges.
- 5. Enter the line console command to enter the Line Configuration Mode. Press Enter.
- 6. Enter the login local command. Press Enter. This specifies that the local line requires login credentials.
- 7. Enter the end command to exit back to the Privileged EXEC Mode.



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

Configuring the IP Address

Each switch must be assigned its own in-band IP Address, which is used for communication with an SNMP network manager or other TCP/IP applications. The Switch's default IP address is 10.90.90.90 with a subnet mask of 255.0.0.0. You can change the IP address of the Switch to meet the specification of your networking address scheme.

The IP address of the Switch must be configured before it can be managed, by the user, via the Web UI.

An example to change the IP address of the Switch to '10.50.50.50', using a subnet mask of '255.0.0.0':

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

In the above example,

- 1. We accessed the **Privileged EXEC Mode** by entering the command **enable**.
- 2. Then we entered the Global Configuration Mode by entering the command, configure terminal.
- 3. Then we entered the VLAN Configuration Mode of the default VLAN, which is VLAN 1, by entering the command, interface vlan 1.
- 4. Then we changed the IP address of the Switch to 10.50.50.50 and the subnet mask to 255.0.0.0 by entering the command **ip address 10.50.50.255.0.0.0**.

The Switch can now be accessed and configured through Telnet or the Web UI. The Switch's IP address can also automatically be obtained by using the DHCP protocol.

Connecting to the MGMT Port

The front panel of the Switch features an Out-Of-Band (OOB) RJ45 MGMT port which can be used to connect to a computer using a standard Ethernet cable. A web browser or Telnet client can be used to connect to the Switch using the MGMT port.

To use the MGMT port, connect one end of an Ethernet cable to a computer and the other end to the Switch. The default IP address of the MGMT port is 192.168.0.1 and the subnet mask is 255.255.255.0. Make sure that the computer being used for the switch management has a non-conflicting IP address in the 192.168.0.0/24 network.

To view the IP settings of the MGMT port, use the following command:

```
Switch#show ip interface mgmt 0
mgmt_ipif 0 is enabled, Link status is up
IP address is 192.168.0.1/24
Gateway is 0.0.0.0
```

Switch#

The IP settings or enabled status of the MGMT port can be changed through the console port. For example, to change the IP address of the MGMT port, use the following commands:

```
Switch#configure terminal
Switch(config)#interface mgmt 0
Switch(config-if)#ip address 192.168.1.1 255.255.255.0
Switch(config-if)#
```

Connecting using SNMP

The Simple Network Management Protocol (SNMP) is an OSI Layer 7 (Application Layer) protocol designed specifically for managing and monitoring network devices. SNMP enables network management stations to read and modify the settings of gateways, routers, switches, and other network devices. Use SNMP to configure system features for proper operation, monitor performance, and detect potential problems in the Switch, switch group, or network.

Managed devices that support SNMP include software (referred to as an agent), which runs locally on the device. A defined set of variables (managed objects) is maintained by the SNMP agent and used to manage the device. These objects are defined in a Management Information Base (MIB), which provides a standard presentation of the information controlled by the on-board SNMP agent. SNMP defines both the format of the MIB specifications and the protocol used to access this information over the network.

The Switch supports SNMPv1, SMNPv2c, and SNMPv3. The administrator may specify which SNMP version to use to monitor and control the Switch. The three SNMP versions vary in the level of security provided between the management station and the network device.

In SNMPv1 and SNMPv2c, user authentication is accomplished using 'community strings', which function like passwords. The remote user SNMP application and the Switch SNMP must use the same community string. SNMP packets from any station that has not been authenticated are ignored (dropped).

The default community strings for the Switch used for SNMPv1 and SNMPv2c management access 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. The 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 SNMPv1 while assigning a higher level of security to another group, granting read/write privileges using SNMPv3.

Using SNMPv3 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 SNMPv3 in that SNMP messages may be encrypted.

Traps

Traps are messages that are sent by an SNMP-enabled device to the NMS, and can be used to alert network personnel of events that occur on the Switch. The events can be as serious as 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 preconfigured IP address, usually an NMS. Typical traps include trap messages for Authentication Failure and Topology Change.

Management Information Base (MIB)

A Management Information Base (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.

6. Web-based Switch Configuration

Introduction Logging into the Web UI Web User Interface (Web UI)

Introduction

Most software functions of the Switch can be managed, configured, and monitored via the embedded HTML Web UI. Management can be done on the Switch from remote stations anywhere on the network through a standard web browser. The web browser acts as a universal access tool and can communicate directly with the Switch using the HTTP or HTTPS (SSL) protocol.

The following web browsers are supported:

- Internet Explorer (version 7 and later)
- Firefox
- Google Chrome
- Safari

Logging into the Web UI

To access the Web UI, open a standard web browser, enter the Switch's IP address into the address bar of the browser, and press the ENTER key. By default, the MGMT port, located just above the RJ45 console port, can be accessed using the IP address of 192.168.0.1. To access the Web UI from normal LAN ports, the default IP address is 10.90.90.90.



NOTE: To configure the IP address of the Switch, refer to the **Configuring the IP Address** section.

After pressing the ENTER key, the following authentication window should appear, as shown below.

Connect to 10.90.90.90				
		La fill		
User Name Password	Login	Reset		

Figure 6-1 Web UI Login Window

When connecting to the Web UI of the Switch for the first time, leave the **User Name** and **Password** fields blank and click **Login** since there are no login user accounts created by default on this switch.



NOTE: After a user account was created, login credentials will be required to access the Web UI. During the sending and receiving of the login password to and from the Switch, this information will be protected using a strong encryption algorithm to prevent attackers from snooping this information to gain unauthorized access to the Switch.

Web User Interface (Web UI)

The Web UI provides access to various Switch configuration and management windows. It allows the user to view performance statistics, and permits graphical monitoring of the system's status.

Areas of the Web UI

After logging into the Switch's Web UI, the following page will be displayed. The Web UI can be divided into four distinct areas that are described in more detail in the table below.

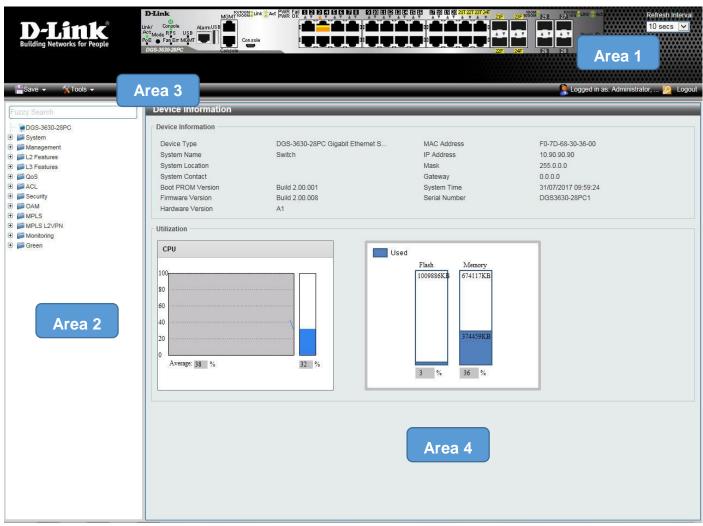


Figure 6-2 Main Web UI Window

Four main areas are displayed in the window.

Area Number	Function
AREA 1	This area displays a graphical, near real-time image of the front panel of the Switch. This area displays the Switch's ports and expansion modules. It also shows port activity based on a specific mode. Some management functions, including port monitoring, are accessible from here. Click the D-Link logo to go to the D-Link website.

AREA 2	This area displays a file explorer-type menu tree with all configurable options. Select the folder or window to display. Open folders and click the hyperlinked window buttons and subfolders contained within them to display information pertaining to that category.
AREA 3	This area displays a toolbar used to access Save and Tools menus.
AREA 4	This area displays graphical, real-time monitoring gauges of Device Information, CPU Usage, and Memory Usage.

Web Pages

In area 2, mentioned above, the following main folders will be available for selecting.

Folder Name	Description
System	Features regarding the Switch's configuration can be viewed and configured in this folder.
Management	Features regarding the Switch's management can be viewed and configured in this folder.
L2 Features	Features regarding the Layer 2 functionality of the Switch can be viewed and configured in this folder.
L3 Features	Features regarding the Layer 3 functionality of the Switch can be viewed and configured in this folder.
QoS	Features regarding the Quality of Service functionality of the Switch can be viewed and configured in this folder.
ACL	Features regarding the Access Control List functionality of the Switch can be viewed and configured in this folder.
Security	Features regarding the Switch's security can be viewed and configured in this folder.
ОАМ	Features regarding the Switch's Operations, Administration and Maintenance (OAM) can be viewed and configured in this folder.
MPLS	Features regarding the Switch's Multiprotocol Label Switching (MPLS) can be viewed and configured in this folder.
MPLS L2VPN	Features regarding the MPLS Layer 2 Virtual Private Network (L2VPN) can be viewed and configured in this folder.
Monitoring	The Switch's configuration and statistics can be viewed and configured in this folder.
Green	Features regarding the D-Link Green Technology can be viewed and configured in this folder.



NOTE: Software features mentioned in this document are based on the Switch running on the most comprehensive software license available. Refer to **Switch Description** on page 8 for more information about **DLMS**.

Appendix A - Technical Specifications

General

Feature	Description		
Data Transfer Rates		Full-duplex	
	Ethernet	20 Mbps	
	Fast Ethernet	200 Mbps	
	Gigabit Ethernet	2 Gbps	
	10 Gigabit Ethernet	20 Gbps	
Physical Stacking Stacking Topology: Duplex Ring, Duplex Chai		iplex Ring, Duplex Chain	
	Stacking Bandwidth: Up to 80 Gbps		
	Stacking Ports: Up to 9 switches can be stacked using the 10 Gbps SFP+ ports		
	Backup Master Support: Yes		
Network Cables	UTP/STP Category 3, 4, 5 for 10BASE-T		
	UTP/STP Category.5, 5e for 100BASE-TX		
	UTP/STP Category 5e for 1000BASE-T		
	UTP/STP Category 6a for 10GBASE-T		
	EIA/TIA-568 100-ohm screened twisted-pair (STP) (100 m)		

Physical and Environmental

Feature	Description	
Internal AC Power Supply	DGS-3630-28TC: 100~240 VAC, 50~60 Hz, 2 A DGS-3630-28SC: 100~240 VAC, 50~60 Hz, 2 A DGS-3630-28PC: 100~240 VAC, 50~60 Hz, 6 A DGS-3630-52TC: 100~240 VAC, 50~60 Hz, 2 A DGS-3630-52PC: 100~240 VAC, 50~60 Hz, 6 A	
Optional Redundant Power Supply	One connector in back to install optional external RPS. When internal power fails, the optional external RPS will take over all the power supply immediately and automatically. DGS-3630-28TC: Supports DPS-500 and DPS-800 DGS-3630-28PC: Supports DPS-500 and DPS-800 DGS-3630-28PC: Supports DPS-700 DGS-3630-52TC: Supports DPS-500 and DPS-800 DGS-3630-52PC: Supports DPS-700	
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	
Real Time Clock (RTC)	Be able to maintain the time setting when the device power is off	
Fans	The IC Sensor detects the temperature on the switch automatically and adjusts the speed	
USB Slot	Supports a USB 2.0 Type-A flash drive with a maximum current of 1 A. This slot only supports FAT16 and FAT32 file system architectures	

	Description
Feature	Description
Power Consumption	DGS-3630-28TC: 42.4 Watts (Max.), 28.1 Watts (Standby)
	DGS-3630-28SC: 63.58 Watts (Max.), 30.1 Watts (Standby)
	DGS-3630-28PC: 44.3 Watts (Max., non-PoE), 469.3 Watts (Max., PoE), 34.6 Watts (Standby)
	DGS-3630-52TC: 62 Watts (Max.), 36 Watts (Standby)
	DGS-3630-52PC: 54.1 Watts (Max., non-PoE), 485 Watts (Max., PoE), 44.6 Watts (Standby)
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)
Heat Dissipation	DGS-3630-28TC: 144.584 BTU/Hr (Max.)
	DGS-3630-28SC: 216.8078 BTU/Hr (Max.)
	DGS-3630-28PC: 1600.313 BTU/Hr (Max.)
	DGS-3630-52TC: 212 BTU/Hr (Max.)
	DGS-3630-52PC: 1653.85 BTU/Hr (Max.)
Dimensions	DGS-3630-28TC: 441 mm (W) x 259.8 mm (D) x 44 mm (H), 19-inch, 1 U Rack-mount size
	DGS-3630-28SC: 441 mm (W) x 259.8 mm (D) x 44 mm (H), 19-inch, 1 U Rack-mount size
	DGS-3630-28PC: 441 mm (W) x 380 mm (D) x 44 mm (H), 19-inch, 1 U Rack-mount size
	DGS-3630-52TC: 441 mm (W) x 259.8 mm (D) x 44 mm (H), 19-inch, 1 U Rack-mount size
	DGS-3630-52PC: 441 mm (W) x 380 mm (D) x 44 mm (H), 19-inch, 1 U Rack-mount size
Weight	DGS-3630-28TC: 3.74 kg
	DGS-3630-28SC: 3.79 kg
	DGS-3630-28PC: 5.88 kg
	DGS-3630-52TC: 4.04 kg
	DGS-3630-52PC: 6.30 kg
MTBF	DGS-3630-28TC: 300190.4551 Hours (with AC power)
	DGS-3630-28SC: 280612.0938 Hours (with AC power)
	DGS-3630-28PC: 259222.7648 Hours (with AC power)
	DGS-3630-52TC: 263936.7807 Hours (with AC power)
	DGS-3630-52PC: 199929.7757 Hours (with AC power)
EMC Certifications	CE Class A, FCC Class A, VCCI Class A, C-Tick Class A, BSMI Class A, CCC
Safety Certifications	UL/cUL, CB, CE, CCC, BSMI
-	

Performance

Feature	Description
Transmission Method	Store-and-forward
Packet Buffer	4 MBytes per device
Jumbo Frame Size	12 KBytes
Switching Capacity	DGS-3630-28TC: 128 Gbps

Feature	Description	
	DGS-3630-28SC: 128 Gbps	
	DGS-3630-28PC: 128 Gbps	
	DGS-3630-52TC: 176 Gbps	
	DGS-3630-52PC: 176 Gbps	
Maximum Packet Forwarding Rate	DGS-3630-28TC: 95.24 Mpps	
	DGS-3630-28SC: 95.24 Mpps	
	DGS-3630-28PC: 95.24 Mpps	
	DGS-3630-52TC: 130.95 Mpps	
	DGS-3630-52PC: 130.95 Mpps	
Priority Queues	8 Priority Queues per port.	
MAC Address Table	Supports 68K MAC addresses (SRM's LAN mode)	
	Supports 1024 Static MAC addresses	
IP Routing Tables	IPv4: 16K entries	
	IPv6: 7K entries	
IP Host Tables	IPv4: 32K entries (SRM's IP mode)	
(L3 Forwarding Table)	IPv6: 16K entries (SRM's IP mode)	
Virtual Stacking / Clustering	Supports D-Link Single IP Management version 1.61	
	Manages up to 32 devices in a virtual stack with a single IP address	

LED Indicators

Location	LED	Color	Status	Description
Per Device	Power	Green	Light on (Solid)	Power on
		Off	Light off	Power off
	MGMT	Green	Light on (Solid)	Link present. No data transmission
			Light blinking	Activity. Data transmission
		Off	Light off	No link present or the port was shutdown
	Console	Green	Light on (Solid)	RJ45 console port is active
		Amber	Light on (Solid)	Mini-USB console port is active
		Off	Light off	Console off
	Fan Err	Red	Light on (Solid)	Fan fail
		Off	Light off	Operating normally
	RPS	Green	Light on (Solid)	RPS in use
			Light off	RPS off
	USB	Green	Light on (Solid)	USB plugged in
			Light blinking	Busy reading/writing
		Red	Light on (Solid)	Read/Write failure
		Off	Light off	No USB plugged in
	Stacking ID	Green	Light on (1-9)	Stacking number displayed
	(7-segment LED)		Light on (H)	Stacking Master
			Light on (h)	Stacking Backup Master
			Light on (E)	System self-test error

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Location	LED	Color	Status	Description			
			Light on (G)	Safeguard Engine in exhausted mode			
	Port LED Mode Indicator	10/100/1	An LED Mode Select Button to switch two modes in turn for all 10/100/1000Mbps ports on DGS-3630-28PC/52PC: • Link/Act/Speed Mode				
		• [PoE Mode				
		Green	Light on (Solid)	An LED Mode Select Button to switch Link/Act/Speed Mode			
			Light on (Solid)	An LED Mode Select Button to switch PoE Mode			
LED Per 10/100/1000 Mbps Port	Link/Act/Speed Mode	Green	Light on (Solid)	When there is a connection (or link) to a 1000 Mbps Ethernet device on any of the ports			
			Light blinking	When there is reception or transmission of data occurring at 1000 Mbps			
		Amber	Light on (Solid)	When there is a connection (or link) to a 10/100 Mbps Ethernet device on any of the ports			
			Light blinking	When there is reception or transmission of data occurring at 10/100 Mbps			
		Off	Light off	Link down or no link			
	PoE Mode	Green	Light on (Solid)	Power feeding.			
		Amber	Light on (Solid)	Error Condition.			
		Off	Light off	No Power feeding.			
LED per SFP Port	Link/Act	Green	Light on (Solid)	When there is a connection (or link) to a 1000 Mbps Ethernet device on any of the ports			
			Light blinking	When there is reception or transmission of data occurring at 1000 Mbps			
		Amber	Light on (Solid)	When there is a connection (or link) to a 100 Mbps Ethernet device on any of the ports			
			Light blinking	When there is reception or transmission of data occurring at 100 Mbps			
		Off	Light off	Link down or no link			
LED per SFP+ Port	Link/Act	Green	Light on (Solid)	When there is a connection (or link) to a 10 Gbps Ethernet device on any of the ports			
			Light blinking	When there is reception or transmission of data occurring at a 10 Gbps port			
		Amber	Light on (Solid)	When there is a connection (or link) to a 1000 Mbps Ethernet device on any of the ports			
			Light blinking	When there is reception or transmission of data occurring at a 1000 Mbps port			
		Off	Light off	Link down or no link			

Port Functions

Feature	Description
Console Port	RJ45 or mini-USB interface for Out-Of-Band (OOB) CLI configuration
RJ45 Ports	Compliant with the following standards: • IEEE 802.3 compliance • IEEE 802.3u compliance • IEEE 802.3ab compliance • IEEE 802.3az compliance (Energy Efficient Ethernet) Support Full-Duplex operations • IEEE 802.3x Flow Control support for Full-Duplex mode
SFP Ports	Compliant with the following standards: IEEE 802.3u compliance IEEE 802.3z compliance IEEE 802.3ah compliance SFP Transceivers Supported: DEM-210 (100BASE-FX, single-mode, 15 km) DEM-310GT (1000BASE-LX, single-mode, 10 km, with DDM) DEM-311GT (1000BASE-SX, multi-mode, 550 m) DEM-312GT2 (1000BASE-SX, multi-mode, 550 m) DEM-314GT (1000BASE-SX, multi-mode, 2 km) DEM-315GT (1000BASE-LHX, single-mode, 50 km) DEM-315GT (1000BASE-ZX, single-mode, 80 km) DGS-712 (1000BASE-T) WDM (BiDi) SFP Transceivers Supported:
	 DEM-220T (100BASE-BX-D, single-mode, 20 km, TX: 1550 nm / RX: 1310 nm) DEM-220R (100BASE-BX-U, single-mode, 20 km, TX: 1310 nm / RX: 1550 nm) DEM-330T (1000BASE-BX-D, single-mode, 10 km, TX: 1550 nm / RX: 1310 nm) DEM-330R (1000BASE-BX-U, single-mode, 10 km, TX: 1310 nm / RX: 1550 nm) DEM-331T (1000BASE-BX-D, single-mode, 20 km, TX: 1550 nm / RX: 1310 nm) DEM-331R (1000BASE-BX-U, single-mode, 20 km, TX: 1310 nm / RX: 1550 nm)
SFP+ Ports	Compliant with the following standards:IEEE 802.3ae complianceIEEE 802.3z complianceIEEE 802.3ah complianceSFP Transceivers Supported:DEM-302S-LX (1000BASE-LX, single-mode, 2 km)DEM-310GT (1000BASE-LX, single-mode, 10 km, with DDM)DEM-311GT (1000BASE-SX, multi-mode, 550 m)DEM-312GT2 (1000BASE-SX, multi-mode, 2 km)DEM-314GT (1000BASE-LHX, single-mode, 50 km)DEM-315GT (1000BASE-LHX, single-mode, 50 km)DEM-315GT (1000BASE-ZX, single-mode, 80 km)DGS-712 (1000BASE-T)WDM (BiDi) SFP Transceivers Supported:

Feature	Description		
	 DEM-302S-BXD (1000BASE-BX-D, single-mode, 2 km, TX: 1550 nm / RX: 1310 nm) 		
	 DEM-302S-BXU (1000BASE-BX-U, single-mode, 2 km, TX: 1310 nm / RX: 1550 nm) 		
	 DEM-330T (1000BASE-BX-D, single-mode, 10 km, TX: 1550 nm / RX: 1310 nm) 		
	 DEM-330R (1000BASE-BX-U, single-mode, 10 km, TX: 1310 nm / RX: 1550 nm) 		
	 DEM-331T (1000BASE-BX-D, single-mode, 20 km, TX: 1550 nm / RX: 1310 nm) 		
	 DEM-331R (1000BASE-BX-U, single-mode, 20km, TX: 1310 nm / RX: 1550 nm) 		
	SFP+ Transceivers Supported:		
	 DEM-431XT (10GBASE-SR, multi-mode, 10 km, without DDM) DEM-431XT-DD (10GBASE-SR, multi-mode, 10 km, without DDM) 		
	 DEM-432XT (10GBASE-LR, single-mode, 10 km, without DDM) 		
	 DEM-432XT-DD (10GBASE-LR, single-mode, 10 km, with DDM) 		
	 DEM-433XT (10GBASE-ER, single-mode, 40 km, without DDM) 		
	 DEM-433XT-DD (10GBASE-ER, single-mode, 40 km, with DDM) 		
	 DEM-434XT (10GBASE-ZR, single-mode, 80 km, without DDM) 		
	WDM (BiDi) SFP+ Transceivers Supported:		
	 DEM-436XT-BXD (10GBASE-LR, single-mode, 20 km, TX: 1330 nm / RX: 1270 nm, without DDM) 		
	 DEM-436XT-BXU (10GBASE-LR, single-mode, 20 km, TX: 1270 nm / RX: 1310 nm, without DDM) 		
	SFP+ Direct Attached Cables (DAC) Supported:		
	 DEM-CB100S (10G SFP+, 1 m) for stacking or uplinking 		
	 DEM-CB300S (10G SFP+, 3 m) for stacking or uplinking 		
	DEM-CB700S (10G SFP+, 7 m) for stacking or uplinking		

Appendix B - Cables and Connectors

Ethernet Cable

When connecting the Switch to another switch, a bridge or hub, a straight-through Cat5/5e/6a/7 cable is necessary. Please review these products for matching cable pin assignment.

The following diagrams and tables show the standard RJ45 receptacle/connector and their pin assignments.

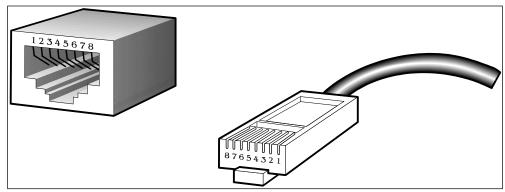


Figure B-1 Standard RJ45 port and connector

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	1000BASE-T
5	1000BASE-T	1000BASE-T
6	TD - (transmit)	RD - (receive)
7	1000BASE-T	1000BASE-T
8	1000BASE-T	1000BASE-T

Console Cable (RJ45 to RS-232)

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.

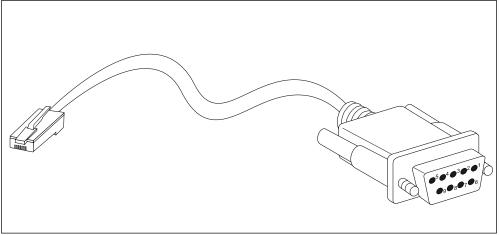


Figure B-2 Console to RJ45 Cable

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

Console Cable (USB to Mini-USB)

A console cable is used to connect to the USB console port of the Switch to access the command line interface. The following diagram and table show the standard USB (Type A) to mini-USB (Type B) cable and pin assignments.

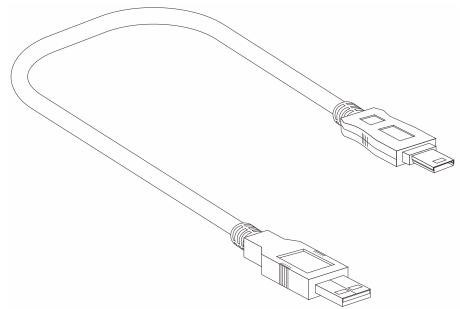


Figure B-3 USB to Mini-USB Cable

Pin	USB (Type A)	Mini-USB (Type B)
1	VBUS (Red)	VBUS (Red)
2	D- (White)	D- (White)
3	D+ (Green)	D+ (Green)
4	GND (Black)	ID (Not Connected)
5	N/A	GND (Black)

Redundant Power Supply (RPS) Cable

When connecting the Switch to a Redundant Power Supply, an RPS cable is necessary. Please review these products for matching cable pin assignment. The following diagrams and tables show the standard RPS receptacle/connector and their pin assignments.

14-pin DC power cable

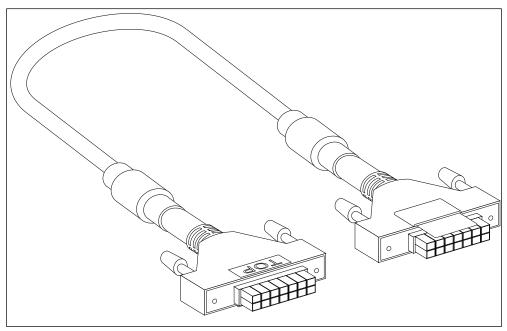


Figure Error! Use the Home tab to apply AppendixHeading to the text that you want to appear here.-1 Redundant Power Supply (RPS) 14-pin DC Power Cable

RPS 14-pin DC Power Cable Pin Assignments					
Pin Device DPS-500					
1	NC	NC			
2	GND	GND			
3	GND	GND			
4	GND	GND			
5	GND	GND			
6	+12V	+12V			
7	+12V	+12V			
8	RS+	RS+			
9	NC	GND			
10	NC	Power Good			
11	GND	NC			
12	Power Good	NC			
13	+5V	+5V			
14	+12V	+12V			

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RPS 14-pin DC Power Cable Pin Assignments			
Pin	Device	DPS-500DC	
1	NC	NC	
2	GND	GND	
3	GND	GND	
4	GND	GND	
5	GND	GND	
6	+12V	+12V	
7	+12V	+12V	
8	+12V	+12V	
9	NC	Power Present	
10	NC	Power Good	
11	Power Present	NC	
12	Power Good	NC	
13	NC	NC	
14	+12V	+12V	

22-pin DC power cable

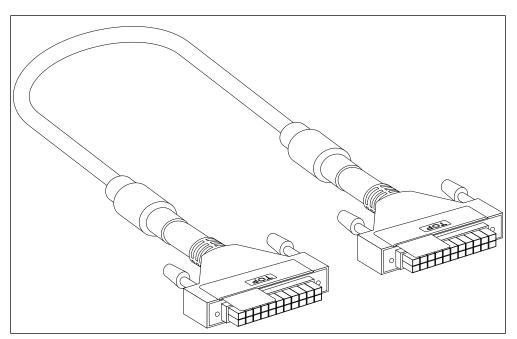


Figure Error! Use the Home tab to apply AppendixHeading to the text that you want to appear here.-2 Redundant Power Supply (RPS) 22-pin DC Power Cable

RPS 22-pin DC Power Cable Pin Assignments			
Pin	Device	DPS-700	
1	-54Vrtn	-54Vrtn	
2	-54V	-54V	
3	+12V	+12V	
4	+12V	+12V	

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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

Alarm Connector (RJ45)

External devices can be connected to the alarm port to either trigger an alarm event or to be the recipient of an alarm event triggered by the Switch. External device connections can be paired together and connected to the alarm port using a standard RJ45 connector. As with any RJ45 connector, there are four pairs of copper wires that can be used, two pairs for external input connections like temperature sensors and two pairs for external output connections like speakers or LED lights.

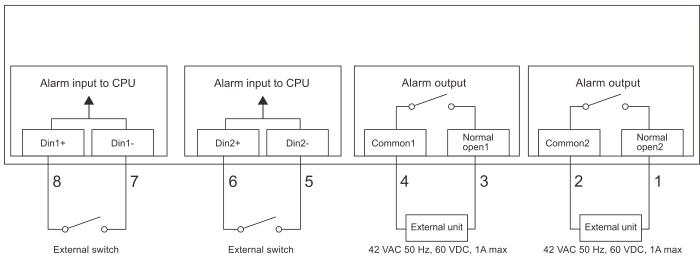


Figure B-4 Alarm Connector pinout

Alarm Connector Port			
Contact	Description		
1	Normal open2 (42 VAC 50 Hz, 60 VDC, 1 A max.)		
2	Common2 (42 VAC 50 Hz, 60 VDC, 1 A max.)		
3	Normal open1 (42 VAC 50 Hz, 60VDC, 1 A max.)		
4	Common1 (42 VAC 50 Hz, 60 VDC, 1 A max.)		
5	Din2- (Input maximum voltage: 3 VDC)		
6	Din2+ (Input maximum voltage: 3 VDC)		
7	Din1- (Input maximum voltage: 3 VDC)		
8	Din1+ (Input maximum voltage: 3 VDC)		

The alarm input pin-pairs, pair1 (Din1+/Din1-) and pair2 (Din2+/Din2-), are used to send alarm signals to the CPU of the Switch. When the circuit between Din+ and Din- is shorted, an alarm signal will be sent to the CPU.

The alarm output pin-pairs, pair1 (Common1/Normal open1) and pair2 (Common2/Normal open2), are controlled by the CPU of the Switch and are used to send alarm signals to external devices. When the circuit between the Common and Normal is open, 42 VAC 50 Hz, 60 VDC, 1 A current is sent. The CPU can short this circuit when an alarm event occurs.

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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.

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- 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 nonconforming.

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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 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.

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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.

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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@d-link.co.za

D-Link Middle East - Dubai, U.A.E. customers

Plot No. S31102, Jebel Ali Free Zone South, P.O.Box 18224, Dubai, U.A.E. Tel: +971-4-8809022 Fax: +971-4-8809066 / 8809069 Technical Support: +971-4-8809033 General Inquiries: info.me@dlinkmea.com Tech Support: support.me@dlinkmea.com

Egypt customers

1, Makram Ebeid Street -City Light Building - floor 5 Nasrcity - Cairo, Egypt Tel.: +2 02 23521593 - +2 02 23520852 Technical Support: +2 02 26738470 General Inquiries: info.eg@dlinkmea.com Tech Support: support.eg@dlinkmea.com

Kingdom of Saudi Arabia customers

Office # 84 , Al Khaleej Building (Mujamathu Al-Khaleej) Opp. King Fahd Road, Olaya Riyadh - Saudi Arabia Tel: +966 1121 70008 Technical Support: +966 1121 70009 General Inquiries: info.sa@ dlinkmea.com Tech Support: support.sa@ dlinkmea.com

Pakistan customers

Islamabad Office: 61-A, Jinnah Avenue, Blue Area, Suite # 11, EBC, Saudi Pak Tower, Islamabad - Pakistan Tel.: +92-51-2800397, 2800398 Fax: +92-51-2800399

Karachi Office: D-147/1, KDA Scheme # 1, Opposite Mudassir Park, Karsaz Road, Karachi – Pakistan Phone: +92-21-34548158, 34326649 Fax: +92-21-4375727 Technical Support: +92-21-34548310, 34305069 General Inquiries: info.pk@dlinkmea.com Tech Support: support.pk@dlinkmea.com

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Unit 1, 1st Floor, Plot No 3, Pazhoheshgah (2) Alley, Ahmad Ghasir (Bokharest) St. , Shahid Beheshti (Abbas Abad) St. , Tehran, Iran. Postal Code : 1514615911 Tel: +98-21-88880918,19 General Inquiries: info.ir@dlinkmea.com Tech Support: support.ir@dlinkmea.com

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M.I.T.C Route de Nouaceur angle RS et CT 1029 Bureau N° 312 ET 337 Casablanca , Maroc Phone : +212 663 72 73 24 Email: support.na@dlinkmea.com

Lebanon RMA center customers

Dbayeh/Lebanon PO Box:901589 Tel: +961 4 54 49 71 Ext:14 Fax: +961 4 54 49 71 Ext:12 Email: taoun@dlinkmea.com

Bahrain customers

Technical Support: +973 1 3332904

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Изготовитель:

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

Уполномоченный представитель, импортер:

ООО "Д-Линк Трейд"

390043, г.Рязань, пр. Шабулина, д.16

Тел.: +7 (4912) 503-505

Офисы

Россия Москва, Графский переулок, 14 Тел. : +7 (495) 744-00-99 E-mail: mail@dlink.ru

Україна Київ, вул. Межигірська, 87-А Тел.: +38 (044) 545-64-40 E-mail: ua@dlink.ua

Moldova Chisinau; str.C.Negruzzi-8 Tel: +373 (22) 80-81-07 E-mail:info@dlink.md

Беларусь Мінск, пр-т Незалежнасці, 169 Тэл.: +375 (17) 218-13-65 E-mail: support@dlink.by

Қазақстан Алматы, Құрманғазы к-сі,143 үй Тел.: +7 (727) 378-55-90 E-mail: almaty@dlink.ru Հայաստան Երևան, Դավթաշեն 3-րդ թաղամաս, 23/5 Հեռ.՝ +374 (10) 39-86-67 Էլ. փոստ՝ info@dlink.am

Latvija Rīga, Lielirbes iela 27 Tel.: +371 (6) 761-87-03 E-mail: info@dlink.lv

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Eesti E-mail: info@dlink.ee

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

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

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- 台灣手機付費電話 (02) 6600-0123#8715
- 台灣服務時間: 週一至週五: 9:00~21:00

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- 香港技術諮詢服務專線 (852) 8100 8892
- 香港服務時間: 週一至週五: 10:00~18:00
 - 週六: 09:00~13:00 / 週日及公眾假期休息(葵芳星期六不提供服務)
- 香港網站: http://www.dlink.com.hk
- 香港電子郵件:service@cn.synnex-grp.com

香港地區維修據點如下:

維修據點:

葵芳服務中心地址:新界葵涌大連排道202-210號偉倫中心一期1樓A室

灣仔服務中心地址:香港灣仔莊士敦道178號-188號華懋莊士敦廣場16樓02室

旺角服務中心地址:香港九龍登打士街32-34A歐美廣場21樓01室

澳門技術諮詢服務專線 (853) 2875 3423

澳門地區維修據點如下:

澳門維修據點:澳門宋玉生廣場258號建興龍廣場11樓A室

澳門維修時間:週一至週五: 09:00~12:30/13:30~18:00

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。

Pelanggan Indonesia

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

Dukungan Teknis untuk pelanggan: Tel: 0800-14014-97 (TOLL FREE)

Dukungan Teknis D-Link melalui Internet: General Inquiries: sales@id.dlink.com Tech Support: 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

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:

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			nic.

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)

