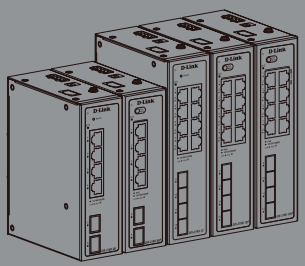
D-Link®

Quick Installation Guide
Industrial Ethernet Switch

This document will guide you through the basic installation process for your new D-Link Industrial Ethernet Switch.

DIS-210G Series



Documentation is also available on the D-Link website

Before You Begin

This Quick Installation Guide gives you step-by-step instructions for setting up the DIS-210G Series Layer 2 Gigabit Industrial Smart Managed Switch. The model you have purchased may appear slightly different from the one shown in the illustrations. For more detailed information about the switch, please refer to the user manual.

Package Contents

This package should include the following items:

- DIS-210G Series switch
- DIN rail mounting kit
- DC power terminal block
- Quick Installation Guide
- Console cable
- SFP Connector Cover

If any of the above items are damaged or missing, please contact your local D-Link reseller.

Hardware Overview

LED Indicators

DIS-210G-06

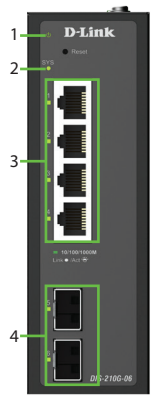


Figure 1

#	LED	Status	Description
1	**Power**	Solid green	Device Power On
		Light Off	Device Power Off
2	**System**	Solid green	Device System Running
		Light Off	Device System not start
3	**Port 1~4**	Solid Green	When there is a secure 10/100/1000Mbps connection at the port.
		Blinking Green	When there is reception or transmission occurring at the port.
		Light Off	No link.
4	**Port 5~6**	Solid Green	When there is a secure 1000Mbps connection at the port.
		Blinking Green	When there is reception or transmission occurring at the port.
		Light Off	No link.

Table 1

DIS-210G-06P

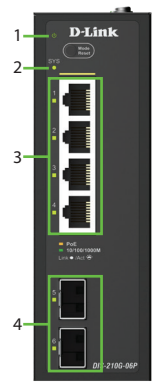


Figure 2

#	LED	Status	Description
1	**Power**	Solid green	Device Power On
		Light Off	Device Power Off
2	**System**	Solid green	Device System Running
		Light Off	Device System not start
3	**Port 1~4**	Solid Green	When there is a secure 10/100/1000Mbps connection at the port.
		Blinking Green	When there is reception or transmission occurring at the port.
		Solid Amber	PD device insert and power feeding
		Light Off	No link.
4	**Port 5~6**	Solid Green	When there is a secure 1000Mbps connection at the port.
		Blinking Green	When there is reception or transmission occurring at the port.
		Light Off	No link.

Table 2

DIS-210G-12

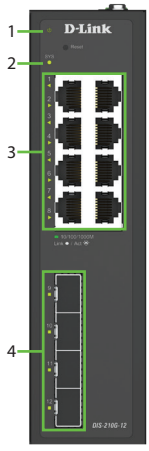


Figure 3

#	LED	Status	Description
1	**Power**	Solid green	Device Power On
		Light Off	Device Power Off
2	**System**	Solid green	Device System Running
		Light Off	Device System not start
3	**Port 1~8**	Solid Green	When there is a secure 10/100/1000Mbps connection at the port.
		Blinking Green	When there is reception or transmission occurring at the port.
		Light Off	No link.
4	**Port 9~12**	Solid Green	When there is a secure 1000Mbps connection at the port.
		Blinking Green	When there is reception or transmission occurring at the port.
		Light Off	No link.

Table 3

DIS-210G-12P / 12UP

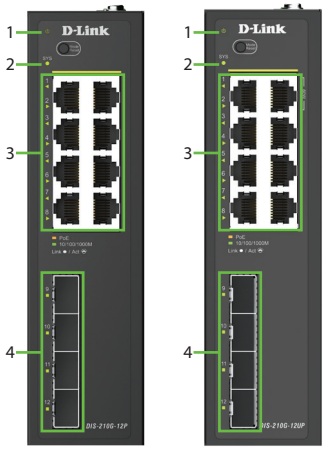


Figure 4

#	LED	Status	Description
1	**Power**	Solid green	Device Power On
		Light Off	Device Power Off
2	**System**	Solid green	Device System Running
		Light Off	Device System not start
3	**Port 1~8**	Solid Green	When there is a secure 10/100/1000Mbps connection at the port.
		Blinking Green	When there is reception or transmission occurring at the port.
		Solid Amber	PD device insert and power feeding
		Light Off	No link.
4	**Port 9~12**	Solid Green	When there is a secure 1000Mbps connection at the port.
		Blinking Green	When there is reception or transmission occurring at the port.
		Light Off	No link.

Table 4

Front Panel Connectors

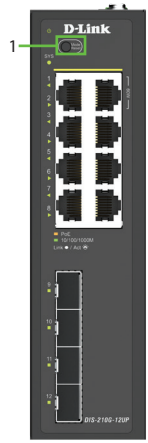


Figure 5

#	Item	Description
1	**Reset**	This is the reset button which is used to perform a factory reset and switch LED to PoE mode.

Table 5

Top Panel Connectors

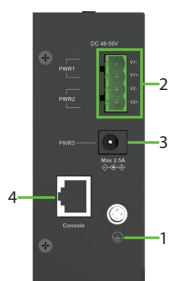


Figure 6

#	Item	Description
1	**Switch ground**	This is used to connect the switch to ground.
2	**Terminal block**	This is used to connect the switch to external power sources and relays.
3	**Power input**	Input Used to connect the switch to external power adapter. This only for system. Doesn't support PoE function.
4	**Console**	This is a console port which is used to connect to the DIS-200G using a RJ-45 to serial cable.

Table 6

Hardware Installation

Before You Begin

Observe the following precautions to help prevent shutdowns, equipment failures, and personal injury:

- Install the DIS-210G in a cool and dry place. Refer to the technical specifications in the user manual for the acceptable operating temperature and humidity ranges.
- Leave at least 10 cm of space at the top, rear and bottom of the switch for ventilation.
- Visually inspect the power connector and make sure that it is fully secured to the power cord.
- Do not stack any devices on top of the switch.
- To reduce the risk of electric shock, the PoE ports on this product must not be connected to cabling that is routed outside the building where this device is located.
- Product shall be used with Class 1 laser device modules certified by CDRH.

It is also recommended that power and grounding requirements are investigated before mounting the DIS-210G, as access to the switch may be restricted once it has been installed.

Caution! Hot surface! Do not touch!

PRUDENCE! Surface chaude! Ne pas toucher!

Mounting the Switch on a DIN Rail

Before beginning either mounting or removing the DIS-210G from a DIN rail, please ensure that the DIN rail is level and that the DIN rail mounting kit is installed correctly on the DIS-210G.

Use the following instructions to install the DIS-210G on a DIN rail:

1. With the back of the DIS-210G facing the DIN rail, lower the top part of the rail mounting kit onto the DIN rail.
2. Push the DIS-210G vertically down and rotate the bottom of the DIS-210G towards the DIN rail, to attach the switch to the DIN rail.

Use the following instructions to remove the DIS-210G from a DIN rail:

1. Push the DIS-210G vertically down to create enough space at the bottom of the rail mounting kit to remove the DIS-210G from the DIN rail.
2. Rotate the DIS-210G upwards to remove the bottom of the rail mounting kit from the rail, and lift the DIS-210G upwards to remove the whole of the switch from the DIN rail.

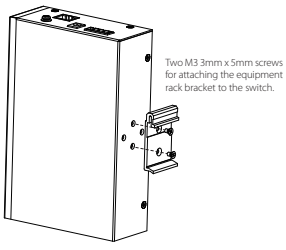


Figure 7

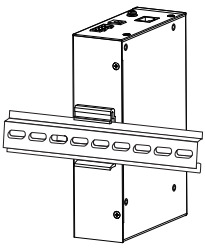


Figure 8

Grounding the Switch

To use the DIS-210G safely, it needs to be grounded. Please complete these steps before powering-on the switch.

Note:
The grounding screw of the chassis must be properly connected to the protective earthing of building in compliance with local regulatory guidelines by using a green-and-yellow grounding cable with the minimum wire gauge 0.75 mm^2.

Use the following instructions to ground the DIS-210G:

1. Remove the grounding screw from the top of the DIS-210G and place the grounding cable lug ring on top of the grounding screw opening.
2. Insert the grounding screw back into the grounding screw opening and use a screwdriver to tighten the grounding screw, securing the grounding cable to the DIS-210G.
3. Attach the terminal lug ring at the other end of the grounding cable to an appropriate grounding source.
4. Verify that the connection between the grounding connector on the DIS-210G and the grounding source is secure.

Connecting to a Power Source

The DIS-210G can be powered using a power adapter (optional) or by using the in-built terminal connector. This allows dual power inputs, using wires from the power source(s) screwed-in to the terminal connections.

Note:

1. The equipment is intended to be supplied by external power source (UL listed / IEC 60950-1 / IEC 62368-1) which output is complied with ES1 (SELV for IEC 60950-1), output rating 12-55VDC ,0.6A(DIS-210G-06, DIS-210G-12), 48-55VDC ,2.7A(DIS-210G-06P), 48-55VDC ,5.2A(DIS-210G-12P) and 48-55VDC ,5.2A(DIS-210G-12UP) for terminal in, 12-55(DIS-210G-06, DIS-210G-12) and 48~55(DIS-210G-06P, DIS-210G-12P) Vdc, 2.5A for DC jack in, ambient temperature 75 °C for terminal in, 40°C for DC jack in. altitude 2000m.
2. The terminal block wiring must be secured by an authorized technician. Recommended wire specifications: 12–26 AWG solid or stranded copper (Cu) wire, with a tightening torque of 3.5 lb-in.

Using the Power Adapter (Optional)

Use the following instructions to power the DIS-210G-06/06P/12/12P using the power adapter (optional):

1. Connect the supplied power adapter to the power connector on the back of the DIS-210G-06/06P/12/12P. Connect the other end of the power adapter to a mains power source.
2. Power adapter only for system use.

Using the Terminal Connections

Before proceeding, ensure that all power sources have been disconnected from the DIS-210G, and that the power source you are wiring to the DIS-210G is also disconnected.

Use the following instructions to power the DIS-210G using the terminal connections:

Before continuing, consult the diagram below to decide which wires from the power source need to connect to which contacts on the terminal block. Note that two power sources can be used; one inserted into V1-/V1+ and the other inserted into V2-/V2+. If you only wish to use one power source, insert the wires into V1-/V1+. This diagram is also provided on the DIS-210G:

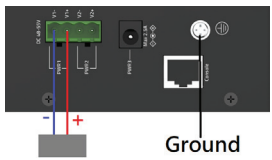


Figure 9

Management Options

The DIS-210G can be managed by using the Web User Interface (Web UI), console port, Telnet, or Simple Network Management Protocol (SNMP) management interfaces.

If you wish to manage a single D-Link switch, the Web UI may be the best option. Each switch must be assigned its own IP address, which is used for communication with the management PC.

Please refer to the following installation instructions to get started with the Web UI, DNA, console port, Telnet, and SNMP management interfaces.

Web User Interface

Once the switch has been successfully installed, you can begin configuration, monitor the LED panel, and display graphical statistics using a web browser. Supported browsers include: Microsoft® Internet Explorer, Firefox, Chrome, and Safari.

You need the following equipment to access the Web UI of your device:

- A PC with an RJ-45 Ethernet connection
- A standard Ethernet cable

1. Connect the Ethernet cable to any of the ports on the switch's front panel and to the Ethernet port on the PC.
2. Modify the IP address of the network adapter and subnet mask of your computer to 255.0.0.0 respectively.
3. Open a web browser and enter **http://10.90.90.90** in the address box.
4. Log in to the switch. To do this, enter **admin** as the default user name and password and click OK.

Console

To connect to the switch's console, use the supplied cable to connect to the switch's console port. This cable is a RS-232 serial to RJ-45 connector cable designed for use with the switch. A terminal emulation program is required to connect to the console port on the switch. These are widely available and can be easily downloaded from the Internet.

Using following steps to connect to switch's console port:

1. Connect the RS-232 serial interface to the serial port of the management PC.
2. Connect the RJ-45 interface to the console port of the switch.
3. Open a terminal emulation program on the management PC and configure the properties of the connection as follows:
   - The speed should be 115200 baud.
   - The data bits should be 8.
   - The parity should be None.
   - The stop bits should be 1.
   - The flow control should be None.
4. Connect to the switch and the Command Line Interface (CLI) should be available. When prompted to log in, enter **admin** as the default user name and password.

Telnet

To connect to the switch using Telnet, a Telnet client is required. This may be included with your operating system, or can be easily downloaded from the Internet.

Before connecting to the switch, ensure that your PC has an IP address in the same range as the switch. Follow the instructions in the Web User Interface section for more information on how to do this.

1. Launch the Telnet software and connect to the IP address of the switch.
2. When you are prompted for a username and password, enter **admin** as the default username and password.

Additional Information

You can refer to the user manual or visit **http://www.dlink.com/resources/business**

for more support.

Online Support

If there are any issues that are not in the user manual, please visit **http://www.dlink.com/support** which will direct you to your appropriate local D-Link support website.

Warranty Information

Visit **http://www.dlink.com/warranty** to view the D-Link Limited Lifetime Warranty information.

Please contact the authorized distributor of D-Link for related accessories (Power adapter, Cable Gland, Cable, etc.) for purchase and installation.

Regulatory Statements

Federal Communication Commission Interference 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 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 the instruction 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 own expense.

Non-modification Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Caution

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

Industry Canada Statement:

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Japan Voluntary Control Council for Interference Statement

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

VCCI-A

警告:

為避免電磁干擾，本產品不應安裝或使用於住宅環境。

Warning: To avoid electromagnetic interference, this product should not be installed or used in residential environments.

CE EMI Class A Warning

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference. Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.

Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75.

Caution:

Ensure to connect the power cord to a socket-outlet with earthing connection.

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