

D-Link[®] Quick Installation Guide

DES-1316

16-Port 10/100Mbps Ethernet Web
Smart Switch with 8-Port PoE



Before Your Begin

This Quick Installation Guide gives step-by-step instructions for setting up the D-Link DES-1316 PoE Web-Smart Switch. The model you have purchased may appear slightly different from those shown in the illustrations. For more detailed information about the switch, its components, making network connections and technical specifications, please refer to the User's Manual on master CD included with your switch.

Check Your Package Contents



**16-Port 10/100Mbps Ethernet Web Smart Switch
with 8-Port PoE**



**CD-Rom(Containing manual and Utility
Installation)**



**AC power cord (Suitable for your area's
electrical power connections)**

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

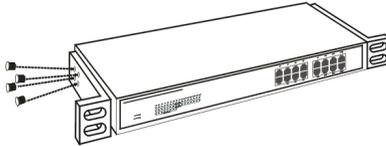
1 Setup The DES-1316 PoE Web Smart Switch

The setup of the Switch can be performed using the following steps:

- A. Install DES-1316 in a fairly cool and dry place. See Technical Specifications for the acceptable temperature and humidity operating ranges.
- B. Install the Switch in a site free from strong electromagnetic field generators (such as motors), vibration, dust, and direct exposure to sunlight.
- C. Leave at least 10cm of space at the front and rear of the hub for ventilation.
- D. Install the Switch on a sturdy, level surface that can support its weight, or in an EIA standard-size equipment rack. For information on rack installation, see the next section, Rack Mounting.
- E. When installing the Switch on a level surface, attach the rubber feet to the bottom of each device. The rubber feet cushion the hub and protect the hub case from scratching.

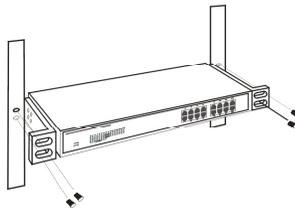
2 Rack Mounting

ES-1316 can be mounted in an EIA standard-size, 19-inch rack, which can be placed in a wiring closet with other equipment. Attach the mounting brackets at the switch's front panel (one on each side), and secure them with the provided screws.



Combine the Switch with the provided screws

Then, use screws provided with the equipment rack to mount each switch in the rack.



Mount the Switch in the rack

3

Connecting Network Cable

DES-1316 support 16 10/100M Ethernet ports and Port 1 ~ port 8 are PoE Enable ports, these PoE port will automatically activated when a compatible terminal is identified, the Switch will supply power through the Ethernet port to the connected PoE device.

For the Legacy devices that are not yet compatible, the PoE port will not offer the power to this device. This feature allows users to freely and safely mix legacy and Power over LAN compatible devices on their network.

The Switch supports 10Mbps Ethernet or 100Mbps Fast Ethernet and it runs both in half and full duplex mode using two pair of Category 5 cable.

These RJ45 ports are Auto-MDI type port. The Switch can auto transform to MDI-II or MDI-X type, so you can just make an easy connection that without worrying if you are using a standard or crossover RJ45 cable.

4

AC Power

The Switch used the AC power supply 100-240V AC, 50-60 Hz. The power switch is located at the rear of the unit adjacent to the AC power connector and the system fan. The switch's power supply will adjust to the local power source automatically and may be turned on without having any or all LAN segment cables connected.

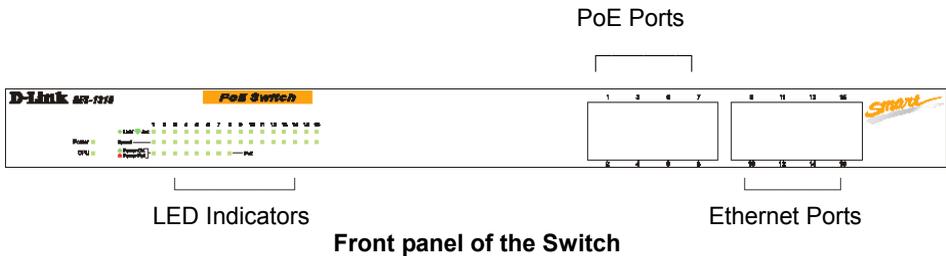
5

Identifying External Components

This chapter describes the front panel, rear panel, and LED indicators of the Switch.

Front Panel

The figure below shows the front panels of the Switch.



LED Indicator:

Comprehensive LED indicators display the status of the switch and the network (see the LED Indicators chapter below).

PoE Ports (Port 1~8):

These ports are PoE Enable ports, the PoE port will automatically activated when a compatible terminal is identified, the Switch will supply power through the Ethernet port to the connected PoE device.

For the Legacy devices that are not yet compatible, the PoE port will not offer the power to this device. This feature allows users to freely and safely mix legacy and Power over LAN compatible devices on their network

These ports support network speeds of either 10Mbps or 100Mbps, and can operate in half- and full- duplex transfer modes. These ports also supports automatic MDI/MDIX crossover detection function gives true “plug and play” capability, just need to plug-in the network cable to the hub directly and don’t care if the end node is NIC (Network Interface Card) or switch and hub.

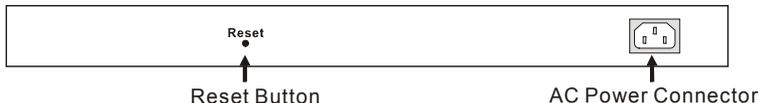
Ethernet Ports (Port 9~16):

These ports support network speeds of either 10Mbps or 100Mbps, and can operate in half- and full- duplex transfer modes. These ports also supports automatic MDI/MDIX

crossover detection function gives true “plug and play” capability, just need to plug-in the network cable to the hub directly and don’t care if the end node is NIC (Network Interface Card) or switch and hub

Note: When the port was set to “Forced Mode”, the Auto MDI/MDIX will be disabled.

Rear Panel



Rear panel of the Switch

AC Power Connector:

This is a three-pronged connector that supports the power cord. Plug in the female connector of the provided power cord into this connector, and the male into a power outlet. Supported input voltages range from 100-240V AC at 50-60Hz.

Reset:

The Reset button is to reset all the setting back to the factory default.

Note: Be sure that you recorded the setting of your device, else all the setting will be erased when pressing the “Reset” button.

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Understanding LED indicators

The front panel LEDs provides instant status feedback, and, helps monitor and troubleshoot when needed.

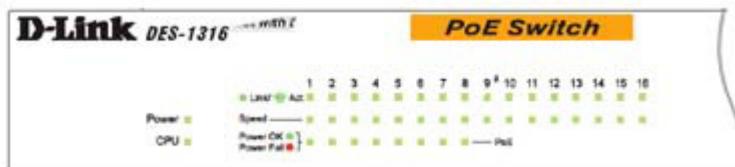


Figure 5. LED indicators of the Switch

Power and CPU LEDs

POWER: Power Indicator

On	When the Power LED lights on, the Switch is receiving power.
Off	When the Power turns off or the power cord has improper connection.

CPU: Management Indicator

Blinking	When the CPU is working, the CPU LED is blinking.
On/Off	The CPU is not working.

Ports 1~8 PoE port status LEDs

Link/ACT: Link/Activity

On	When the Link/ACT LED lights on, the respective port is successfully connected to an Ethernet network.
Blinking	When the Link/ACT LED is blinking, the port is transmitting or receiving data on the Ethernet network.
Off	No link.

100Mbps

On	When the 100Mbps LED lights on, the respective port is connected to a 100Mbps Fast Ethernet network.
Off	When the respective port is connected to a 10Mbps Ethernet network

PoE Status

Green	When the PoE device was connected and the port supplies power successfully.
Red	When the PoE port have the following failure happens: <ul style="list-style-type: none">✓ PoE power short circuit✓ PoE Power over current✓ PoE Power fault
Off	No Powered Device is detected

Ports 9~16 Ethernet port status LEDs

Link/ACT: Link/Activity

On	When the Link/ACT LED lights on, the respective port is successfully connected to an Ethernet network.
Blinking	When the Link/ACT LED is blinking, the port is transmitting or receiving data on the Ethernet network.
Off	No link.

100Mbps

On	When the 100Mbps LED lights on, the respective port is connected to a 100Mbps Fast Ethernet network.
Off	When the respective port is connected to a 10Mbps Ethernet network

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Installing the Web Management Utility

The following gives instructions guiding you through the installations of the Web Management utility.

1. Insert the Utility CD in the CD-Rom Drive.
2. From the **Start** menu on the Windows desktop, choose **Run**.
3. In the **Run** dialog box, type D:\Web Management Utility\setup.exe (D:\ depends where your CD-Rom drive is located) and click **OK**.
4. Follow the on-screen instructions to install the utility.
5. Upon completion, go to **Program Files -> web_management_utility** and execute the Web Management utility. (Figure 1.)

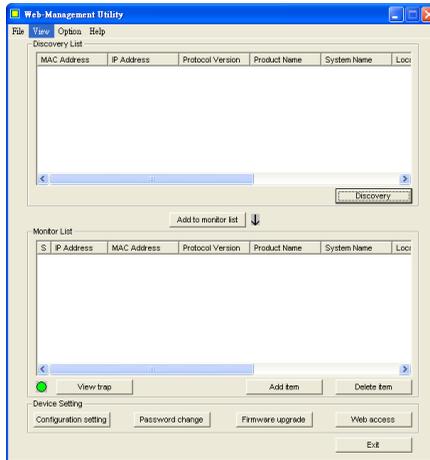


Figure 1. Web Management Utility

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Configuring the Switch

The 16-Port 10/100Mbps Ethernet Web Smart Switch with 8-Port PoE has a Web GUI interface for smart switch configuration. The Switch can be configured through the Web Browser. A network administrator can manage, control and monitor the switch from the local LAN. This section indicates how to configure the Switch to enable its smart functions including:

- ◆ Port Setting (Speed/Disable and Flow Control)
- ◆ VLAN Setting (802.1Q VLAN)
- ◆ Trunking
- ◆ Port Mirroring
- ◆ QoS Setting
- ◆ PoE Setting
- ◆ System Setting
- ◆ Device status and Statistic

Login

Before you configure this device, note that when the Web Smart Switch is configured through an Ethernet connection, make sure the manager PC must be set on same the **IP network**. For example, when the default network address of the default IP address of the Web Smart Switch is **192.168.0.1**, then the manager PC should be set at 192.168.0.x (where x is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

Open Internet Explorer 5.0 or above Web browser.

Enter IP address **http://192.168.0.1** (the factory-default IP address setting) to the address location. (Figure 2.)



Figure 2.

Or through the Web Management Utility, you do not need to remember the IP Address, select the device shown in the Monitor List of the Web Management Utility to settle the device on the Web Browser.

When the following dialog page appears, remain enter the default password **"admin"** and press Login to enter the main configuration window. (Figure 3.)

Login	
System Name :	
Location Name :	
IP Address :	192.168.0.1
MAC Address :	00-11-22-33-44-55
password	<input type="text"/> <input type="button" value="Login"/>

Figure 3.

After entering the password, the main page comes up, the screen will display the device status. (Figure 4.)

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DES-1316 Refresh

Switch Status

Product Name	DES-1316
Firmware Version	1.00
Protocol Version	2.001.001
IP Address	192.168.0.1
Subnet mask	255.255.255.0
Default gateway	192.168.0.254
Trap IP	0.0.0.0
MAC address	00-11-22-33-44-55
System Name	
Location Name	
Login Timeout (minutes)	5
System Up Time	0 days 0 hours 1 mins 18 seconds

PORT STATUS

ID	Speed		Flow Control		Rate Control		ID	Speed		Flow Control		Rate Control	
	Set	Status	Set	Status	Ingress	Egress		Set	Status	Set	Status	Ingress	Egress
10/100 Mbps													
01	Auto	Down	Enable	Off	Disable	Disable	02	Auto	Down	Enable	Off	Disable	Disable
03	Auto	Down	Enable	Off	Disable	Disable	04	Auto	Down	Enable	Off	Disable	Disable
05	Auto	Down	Enable	Off	Disable	Disable	06	Auto	Down	Enable	Off	Disable	Disable
07	Auto	Down	Enable	Off	Disable	Disable	08	Auto	100M Half	Enable	Off	Disable	Disable
09	Auto	Down	Enable	Off	Disable	Disable	10	Auto	Down	Enable	Off	Disable	Disable

Figure 4. Device Status

Setup Menu

When the main page appears, find the **Setup menu** in the left side of the screen (Figure 14). Click on the setup item that you want to configure. There are eleven options: *Port Settings, VLAN Settings, Trunk Settings, Mirror Settings, QoS Settings, PoE Settings, Device Status, Statistic, System Settings, Trap Setting, Password Settings, Backup Settings and Reset Settings* as shown in the Main Menu screen.



Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

U.S. and Canadian customers can contact D-Link technical support through our website, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone:

(877) 453-5465

24 hours a day, seven days a week

D-Link Technical Support over the Internet:

<http://support.dlink.com>

[email:support@dlink.com](mailto:support@dlink.com)

Tech Support for customers within Canada:

D-Link Technical Support over the Telephone:

(800) 361-5265

Monday to Friday 8:30am to 9:00pm EST

D-Link Technical Support over the Internet:

<http://support.dlink.ca>

[email:support@dlink.ca](mailto:support@dlink.ca)

Tech Support for customers within the United Kingdom & Ireland:

D-Link UK & Ireland Technical Support over the Telephone:

+44 (0)20 7365 8440 (United Kingdom)

+353 (0)12 421 061 (Ireland)

Monday to Friday 8:00 am to 10:00 pm

D-Link Technical Support over the Internet:

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