

# D-Link™ DGS-1248T

WebSmart 48-Port 10/100/1000Mbps + 4  
Combo SFP(Mini GBIC) Gigabit Switch

## Manual

Second Edition

**D-Link®**

Building Networks for People



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## ***ABOUT THIS MANUAL***

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Congratulations on your purchase of the DGS-1248T Web Smart 48-Port 10/100/1000Mbps Gigabit Switch. This device integrates 1000Mbps Gigabit Ethernet, 100Mbps Fast Ethernet, and 10Mbps Ethernet network capabilities in a highly flexible package.

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### **Purpose**

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This manual discusses how to install your 48-Port 10/100/1000Mbps Gigabit Web Smart Switch.

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### **Terms/Usage**

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In this manual, the term “Switch” (first letter upper case) refers to your Web Smart Switch, and “switch” (first letter lower case) refers to other Ethernet switches.

## ***INTRODUCTION***

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This chapter describes the features of the DGS-1248T Web Smart 48-Port 10/100/1000Mbps Gigabit Switch and some background information about Ethernet/Fast Ethernet/Gigabit Ethernet switching technology.

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### **Gigabit Ethernet Technology**

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Gigabit Ethernet is an extension of IEEE 802.3 Ethernet utilizing the same packet structure, format, and support for CSMA/CD protocol, full-duplex, flow control, and management objects, but with a tenfold increase in theoretical throughput over 100-Mbps Fast Ethernet and a hundredfold increase over 10-Mbps Ethernet. Since it is compatible with all 10-Mbps and 100-Mbps Ethernet environments, Gigabit Ethernet provides a straightforward upgrade without wasting a company's existing investment in hardware, software, and trained personnel.

The increased speed and extra bandwidth offered by Gigabit Ethernet are essential to coping with the network bottlenecks that frequently develop as computers and their busses get faster and more users use applications that generate more traffic. Upgrading key components, such as your backbone and servers to Gigabit Ethernet can greatly improve network response times as well as significantly speed up the traffic between your subnets.

Gigabit Ethernet enables fast optical fiber connections to support video conferencing, complex imaging, and similar data-intensive applications. Likewise, since data transfers occur 10 times faster than Fast Ethernet, servers outfitted with Gigabit Ethernet NIC's are able to perform 10 times the number of operations in the same amount of time.

In addition, the phenomenal bandwidth delivered by Gigabit Ethernet is the most cost-effective method to take advantage of today and tomorrow's rapidly improving switching and routing internetworking technologies. And with expected advances in the coming years in silicon technology and digital signal processing that will enable Gigabit Ethernet to eventually operate over unshielded twisted-pair (UTP) cabling, outfitting your network with a powerful 1000-Mbps-capable backbone/server connection creates a flexible foundation for the next generation of network technology products.

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## Fast Ethernet Technology

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The growing importance of LANs and the increasing complexity of desktop computing applications are fueling the need for high performance networks. A number of high-speed LAN technologies have been proposed to provide greater bandwidth and improve client/server response times. Among them, 100BASE-T (Fast Ethernet) provides a non-disruptive, smooth evolution from the current 10BASE-T technology. The non-disruptive and smooth evolution nature, and the dominating potential market base, virtually guarantees cost-effective and high performance Fast Ethernet solutions.

100Mbps Fast Ethernet is a standard specified by the IEEE 802.3 LAN committee. It is an extension of the 10Mbps Ethernet standard with the ability to transmit and receive data at 100Mbps, while maintaining the CSMA/CD Ethernet protocol. Since the 100Mbps Fast Ethernet is compatible with all other 10Mbps Ethernet environments, it provides a straightforward upgrade and takes advantage of the existing investment in hardware, software, and personnel training.

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## Switching Technology

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Another approach to pushing beyond the limits of Ethernet technology is the development of switching technology. A switch bridges Ethernet packets at the MAC address level of the Ethernet protocol transmitting among connected Ethernet or Fast Ethernet LAN segments.

Switching is a cost-effective way of increasing the total network capacity available to users on a local area network. A switch increases capacity and decreases network loading by dividing a local area network into different segments, which do not compete with each other for network transmission capacity.

The switch acts as a high-speed selective bridge between the individual segments. The switch, without interfering with any other segments, automatically forwards traffic that needs to go from one segment to another. By doing this the total network capacity is multiplied, while still maintaining the same network cabling and adapter cards.

Switching LAN technology is a marked improvement over the previous generation of network bridges, which were characterized by higher latencies. Routers have also been used to segment local area networks, but the cost of a router, the setup, and maintenance required make routers relatively impractical. Today switches are an ideal solution to most kinds of local area network congestion problems.

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## VLAN (Virtual Local Area Network)

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A VLAN is a group of end-stations that are not constrained by their physical location and can communicate as if a common broadcast domain, a LAN. The primary utility of using VLAN is to reduce latency and need for routers, using faster switching instead. Other VLAN utility includes:

**Security:** Security is increased with the reduction of opportunity in eavesdropping on a broadcast network because data will be switched to only those confidential users within the VLAN.

**Cost Reduction:** VLANs can be used to create multiple broadcast domains, thus eliminating the need of expensive routers.

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## Features

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- ◆ 48×10/100/1000Mbps Auto-negotiation Gigabit Ethernet ports
- ◆ 4 x 1000Mbps SFP(Mini GBIC) (Auto-Sense) for optional SFP(Mini GBIC) transceiver to extend distance, share with 4 1000BASE-T ports
- ◆ All RJ-45 ports support auto MDI/MDIX, so there is no need to use cross-over cables or an up-link port
- ◆ Half-duplex transfer mode for connection speed 10Mbps and 100Mbps
- ◆ Full-duplex transfer mode for connection speed of 10Mbps, 100Mbps, and 1000Mbps
- ◆ Wire speed reception and transmission
- ◆ Store-and-Forward switching scheme capability to support rate adaptation and ensure data integrity
- ◆ Up to 16K unicast addresses entities per device, self-learning, and table aging
- ◆ 1632KBytes packet buffer

- ◆ Supports IEEE 802.3x flow control for full-duplex mode ports
- ◆ Supports 802.1Q VLAN
- ◆ Supports IEEE 802.1p QoS
- ◆ Supports Trunk
- ◆ Supports Port-mirroring
- ◆ Support Jumbo-frame setting
- ◆ Supports IEEE 802.1D Spanning Tree protocol
- ◆ Support Simple Network Management Protocol (SNMP)
- ◆ Supports MIB for:
  - RFC1213 MIB II.
  - Private MIB.
- ◆ Supports Port-setting for Speed/Disable, Flow control
- ◆ Easy configuration via Web Browser
- ◆ Easy setting via Web Management Utility
- ◆ Standard 19" Rack-mount size

## ***UNPACKING AND INSTALLATION***

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This chapter provides unpacking and installation information for the Switch.

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### **Unpacking**

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

- ◆ One DGS-1248T Web Smart 48-Port 10/100/1000Mbps Gigabit Switch
- ◆ One AC power cord, suitable for your area's electrical power connections
- ◆ Four rubber feet to be used for shock cushioning
- ◆ Screws and two mounting brackets
- ◆ CD-ROM with Web Management Utility and Manual

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

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### **Installation**

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The site where you install the hub stack may greatly affect its performance. When installing, consider the following pointers:

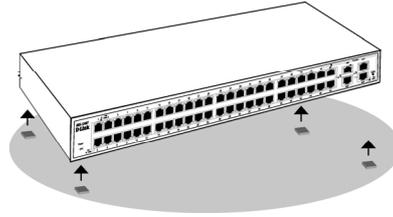
Install the Switch in a fairly cool and dry place. See *Technical Specifications* for the acceptable temperature and humidity operating ranges.

Install the Switch in a site free from strong electromagnetic field generators (such as motors), vibration, dust, and direct exposure to sunlight.

Leave at least 10cm of space at the front and rear of the hub for ventilation.

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.

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.



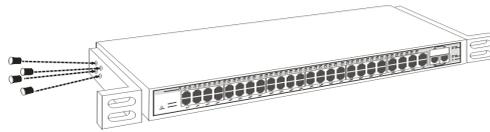
**Figure 1. Attach the adhesive rubber pads to the bottom**

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## Rack Mounting

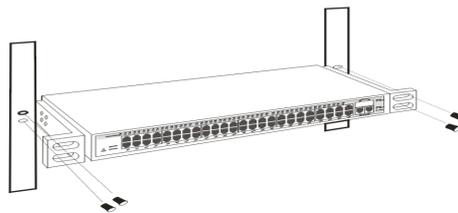
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The Switch can be mounted in an EIA standard-size, 19-inch rack, which can be placed in a wiring closet with other equipment. Attach the mounting brackets at the Switch's front panel (one on each side), and secure them with the provided screws.



**Figure 2. Combine the Switch with the provided screws**

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



**Figure 3. Mount the Switch in the rack**

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## Connecting Network Cable

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The Switch supports 1000Mbps Gigabit Ethernet that runs in Auto-negotiation mode and 10Mbps Ethernet or 100Mbps Fast Ethernet that runs both in half- and full-duplex mode and 1000Mbps Gigabit Ethernet runs in full-duplex mode using four pair of Category 5 Cable.

These RJ-45 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.

There are 4 additional SFP/mini-GBIC slots for optional SFP/mini-GBIC modules.

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## AC Power

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The Switch uses 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.

## ***IDENTIFYING EXTERNAL COMPONENTS***

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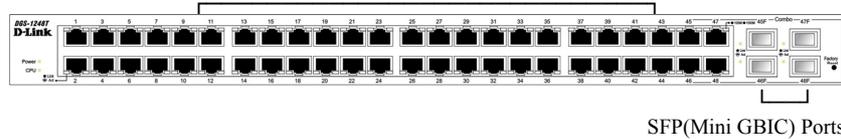
This chapter describes the front panel, rear panel, and LED indicators of the Switch.

### **Front Panel**

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The figure below shows the front panels of the Switch.

10/100/1000 Base-T Twisted-Pair Ports w/ LED Indicators



**Figure 4. Front panel of 48-Port Gigabit Ethernet Switch**

### **LED Indicator**

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

#### **1000BASE-T Twisted Pair Ports (Port 1~48)**

The DGS-1248T is equipped with forty-eight Gigabit twisted pair ports that are auto negotiable 10/100/1000Mbps and also support auto MDI/MDIX crossover detection. These ports can operate in half- and full-duplex modes.

#### **SFP(Mini GBIC) Ports (Option Port 45~48)**

The Switch is equipped with Four SFP(Mini GBIC) ports, supporting optional 1000BASE-X SFP(Mini GBIC) transceivers.

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

### **Reset**

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The Reset button is used to reset all settings back to the factory defaults.

*Note: Be sure that you record the settings of your device, or else all settings will be erased when pressing the “Reset” button.*

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## Rear Panel

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**Figure 5. 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.

## UNDERSTANDING LED INDICATORS

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

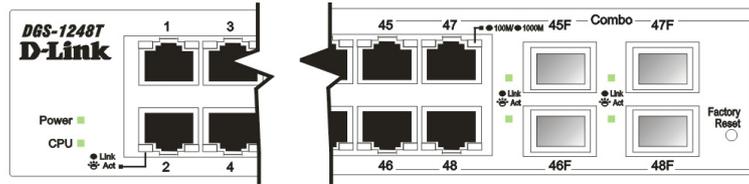


Figure 6. LED indicators of the Switch

### Power and System LEDs

#### POWER: System 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 an improper connection.

#### CPU: Management Indicator

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

### Ports 1~48 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	:	There is no link.

**Speed:**

Green	:	When the Speed LED lights green, the respective port is connected to a 1000Mbps Gigabit Ethernet network.
Amber	:	When the Speed LED lights amber, the respective port is connected to a 100Mbps Fast Ethernet network.
Off	:	When the Speed LED lights off, the respective port is connected to a 10Mbps Fast Ethernet network.

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**mini-GBIC Port 45F ~ 48F LEDs**

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**Link/ACT:**

On	:	When the mini-GBIC module is installed and connected to a network, the Link LED lights on.
Blinking	:	When the LED is blinking, the port is transmitting or receiving data on the network.
Off	:	No mini-GBIC module is installed or connected to a network.

## CONFIGURATION

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Through the Web Browser you can configure the Switch functions such as VLAN, Trunking, QoS... etc.

With the attached Web Management Utility, you can easily discover all Web Managed Switches, assign the IP Address, change the password, and upgrade with new firmware.

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### Installing the Web Management Utility

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The following provides 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 7.)

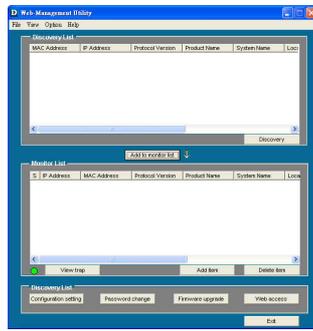


Figure 7. Web Management Utility

The Web Management Utility was divided into four parts, *Discovery List*, *Monitor List*, *Device Setting*, and *Toolbar function*, for detailed instructions, follow the section below.

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## Discovery List

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This is the list where you can discover all the Web managed devices in the entire network.

By pressing the “*Discovery*” button, you can list all the Web Managed devices in the discovery list.

Double click or press the “*Add to monitor list*” button to select a device from the Discovery List to the Monitor List.

System word definitions in the Discovery List:

- **MAC Address:** Shows the device MAC Address.
- **IP Address:** Shows the current IP address of the device.
- **Protocol version:** Shows the version of the Utility protocol.
- **Product Name:** Shows the device product name.
- **System Name:** Shows the appointed device system name.
- **Location:** Shows where the device is located.
- **Trap IP:** Shows the IP where the Trap is to be sent.
- **Subnet Mask:** Shows the Subnet Mask set of the device.
- **Gateway:** Shows the Gateway set of the device.

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## Monitor List

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All the Web Smart Devices in the Monitor List can be monitored; you can also receive traps and show the status of the device.

System word definitions in the Monitor List:

- **S:** Shows the system symbol of the WebSmart device,  represents a device that is not alive.
- **IP Address:** Shows the current IP address of the device.
- **MAC Address:** Shows the device MAC Address.
- **Protocol version:** Shows the version of the Utility protocol.
- **Product Name:** Shows the device product name.
- **System Name:** Shows the appointed device system name.

- **Location:** Shows where the device is located.
- **Trap IP:** Shows the IP where the Trap is to be sent.
- **Subnet Mask:** Shows the Subnet Mask set of the device.
- **Gateway:** Shows the Gateway set of the device.

**View Trap:** The Trap function can receive the events that occur on the Switch in the Monitor List.

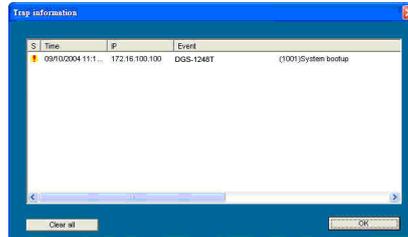
There is a light indicator behind the “View Trap” button. When the light is green, it means that there is no trap transmitted, and when it is red, it means that there is new trap transmitted, reminding us to view the trap. (Figure 8)



**Figure 8.**

When the “View Trap” button is clicked, a Trap Information window will pop up. It will display the trap information including the Symbol, Time, Device IP, and the Event occurred. (Figure 9)

The symbol “!” represents the trap signal; this symbol will disappear after you review and click on the event record.



**Figure 9.**

Note: In order to receive Trap information, the Switch has to be configured with Trap IP and Trap Events in the Web browser, which are available in the Trap Setting Menu (see Page 45 for details).

**Add Item:** To add a device to the Monitor List manually, enter the IP Address of the device that you want to monitor.

**Delete Item:** To delete the device in the Monitor List.

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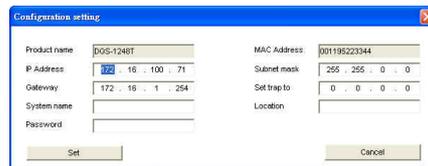
## Device Setting

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You can set the device by using the function key in the Device Setting Dialog box.

**Configuration Setting:** In this Configuration Setting, you can set the IP Address, Subnet Mask, Gateway, Set Trap to (Trap IP Address), System name, and Location.

Select the device in the Discovery list or Monitor List and press this button, then the Configuration Setting window will pop up (Figure 10). After filling in the data that you want to change, you must fill in the password and press the “Set” button to process the data change immediately. The default password of this 48-Port 10/100/1000Mbps Gigabit Ethernet Web Smart Switch configuration is **“admin.”**



The screenshot shows a dialog box titled "Configurative setting" with a close button in the top right corner. It contains several input fields arranged in two columns. The left column includes: "Product name" with the value "JGS-1240T", "IP Address" with the value "172 . 16 . 100 . 71", "Gateway" with the value "172 . 16 . 1 . 254", "System name" (empty), and "Password" (empty). The right column includes: "MAC Address" with the value "001195223344", "Subnet mask" with the value "255 . 255 . 0 . 0", "Set trap to" with the value "0 . 0 . 0 . 0", and "Location" (empty). At the bottom of the dialog, there are two buttons: "Set" on the left and "Cancel" on the right.

**Figure 10. Configuration Setting**

**Password Change:** You can use this when you need to change the password. Fill in the required passwords in the dialog boxes and press the “Set” button to process the password change immediately.



The screenshot shows a dialog box titled "Password\_change" with a close button in the top right corner. It contains three input fields: "New password" (empty), "Confirm password" (empty), and "Original password" (empty). At the bottom of the dialog, there are two buttons: "Set" on the left and "Cancel" on the right.

**Figure 11. Password Change**

**Firmware Upgrade:** When the device has a new function, there will be a new firmware to update the device; use this function to upgrade the firmware

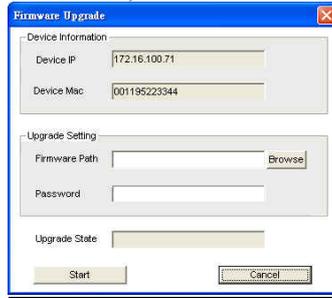


Figure 12.

**Web Access:** Double click the device in the Monitor List or select a device in the Monitor List and press the “*Web Access*” button to access the device in Web browser.

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## Toolbar

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The toolbar in the Web Management Utility has four main tabs: File, View, Options, and Help.

In the “*File TAB*”, there is Monitor Save, Monitor Save As, Monitor Load, and Exit.

**Monitor Save:** To record the settings of the Monitor List to the default settings so that when you open the Web Management Utility the next time, it will automatically load the default recorded setting.

- **Monitor Save As:** To record the setting of the Monitor List to an appointed filename and file path.
- **Monitor Load:** To manually load the setting file of the Monitor List.
- **Exit:** To exit the Web Management Utility.

In the “*View TAB*”, there are the view log and clear log functions: the view log function will help you display trap settings.

- **View Log:** To display the event of the Web Management Utility and the device.
- **Clear Log:** To clear the log.

In the “*Option TAB*”, there is the Refresh Time function. This function helps you to refresh the time for monitoring the device. Choose *15 secs, 30 secs, 1 min, 2 min, and 5 min* to select the time for monitoring.

In the “*Help TAB*”, there is About function, it will show out the version of the Web Management Utility.

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## Configuring the Switch

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The Web Smart 48-Port 10/100/1000Mbps Gigabit Switch 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)
- ◆ Virtual LAN Group setting (VLAN)
- ◆ Trunk
- ◆ Port Mirroring
- ◆ QoS
- ◆ SNMP
- ◆ Jumbo Frame
- ◆ System Setting
- ◆ Device status and Statistics

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## Login

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Before you configure this device, note that when the Web Smart Switch is configured through an Ethernet connection, make sure the manager PC is 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 the IP address *http://192.168.0.1* (the factory-default IP address setting) into the address location.



**Figure 13.**

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, enter the default password "admin" and press Login to enter the main configuration window.

**Login**

System Name :  
 Location Name :  
 IP Address : 192.168.0.1  
 MAC Address : 00-11-22-33-44-55

password

Figure 14.

After entering the password, the main page appears, and the screen will display the device status.

**Switch Status**

Product Name	DGS-124RT
Firmware Version	2.00.15
Protocol Version	2.001.001
IP Address	172.21.41.88
Subnet mask	255.255.240.0
Default gateway	172.21.32.254
Trap IP	0.0.0.0
MAC address	00-12-45-64-88-88
System Name	
Location Name	
Login Timeout (minutes)	5
System Up/Time	0 days 0 hours 1 mins 6 seconds

**PORT Status**

10/100/1000 Mbps											
ID	Speed	Flow Control	Default Priority	Link Status	ID	Speed	Flow Control	Default Priority	Link Status		
01	10M Half	Disable	0	Down	23	Auto	Enable	0	Down		
02	Auto	Enable	0	Down	24	Auto	Enable	0	Down		
03	10M Half	Disable	0	Down	25	Auto	Enable	0	Down		
04	Auto	Enable	0	Down	26	Auto	Enable	0	Down		
05	Auto	Enable	0	Down	27	Auto	Enable	0	Down		
06	Auto	Enable	0	Down	28	Auto	Enable	0	Down		
07	Auto	Enable	0	Down	29	Auto	Enable	0	Down		
08	Auto	Enable	0	Down	30	Auto	Enable	0	Down		
09	Auto	Enable	0	Down	31	Auto	Enable	0	10 Full		
10	Auto	Enable	0	Down	32	Auto	Enable	0	Down		
11	Auto	Enable	0	Down	33	Auto	Enable	0	Down		
12	Auto	Enable	0	Down	34	Auto	Enable	0	Down		

Figure 15. Device Status

---

## Setup Menu

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When the main page appears, find the Setup menu in the left side of the screen (Figure 16). Click on the setup item that you want to configure. There are fifteen options: Port Settings, VLAN Settings, Trunk Setting, Mirror Setting, QoS Setting, Spanning Tree Setting, SNMP Setting, Jumbo Frame Setting, Device Status, Statistic, System Settings, Trap Setting, Password Setting, Backup Setting and Reset Setting as shown in the Main Menu screen.



Figure 16. Setup menu

---

## Configuring Setup Setting

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Find that there are eight items, including Port Settings, VLAN Settings, Trunk Settings, Mirror Settings, QoS Setting, Spanning Tree Setting, SNMP Setting and Jumbo Frame Setting in Setup menu.

## Port Settings

In the Port Settings menu (Figure 17), this page will display each port's status. Press the ID parameter to set each port's *Speed*, *Flow Control*, *Default priority*, and *Link Status*. When you need to renew the posted information, press the "Refresh" button.

The *Link Status* in the screen will display the connection speed and duplex mode; otherwise this dialog box will display *down* when the port is disconnected.

### PORT Status

10/100/1000 Mbps									
ID	Speed	Flow Control	Default Priority	Link Status	ID	Speed	Flow Control	Default Priority	Link Status
01	Auto	Enable	0	Down	23	Auto	Enable	0	Down
02	Auto	Enable	0	Down	24	Auto	Enable	0	Down
03	Auto	Enable	0	Down	25	Auto	Enable	0	Down
04	Auto	Enable	0	Down	26	Auto	Enable	0	Down
05	Auto	Enable	0	Down	27	Auto	Enable	0	Down
06	Auto	Enable	0	Down	28	Auto	Enable	0	Down
07	Auto	Enable	0	Down	29	Auto	Enable	0	Down
08	Auto	Enable	0	Down	30	Auto	Enable	0	Down
09	Auto	Enable	0	Down	31	Auto	Enable	0	1G Full
10	Auto	Enable	0	Down	32	Auto	Enable	0	Down
11	Auto	Enable	0	Down	33	Auto	Enable	0	Down
12	Auto	Enable	0	Down	34	Auto	Enable	0	Down
13	Auto	Enable	0	Down	35	Auto	Enable	0	Down
14	Auto	Enable	0	Down	36	Auto	Enable	0	Down
15	Auto	Enable	0	Down	37	Auto	Enable	0	Down
16	Auto	Enable	0	Down	38	Auto	Enable	0	Down
17	Auto	Enable	0	Down	39	Auto	Enable	0	Down
18	Auto	Enable	0	Down	40	Auto	Enable	0	Down
19	Auto	Enable	0	Down	41	Auto	Enable	0	Down
20	Auto	Enable	0	Down	42	Auto	Enable	0	Down
21	Auto	Enable	0	Down	43	Auto	Enable	0	Down
22	Auto	Enable	0	Down	44	Auto	Enable	0	Down
45	Auto	Enable	0	Down	46	Auto	Enable	0	Down
47	Auto	Enable	0	Down	48	Auto	Enable	0	Down

Figure 17. Port Setting

**Note 1:** Be sure to reset the Gigabit port when transferring the media type (Fiber to Copper or Copper to Fiber).

**Note 2:** The priority of Gigabit Fiber port is higher than Copper.

To change the port setting, click on the ID parameter to enter the selected port to configure its Speed/Disable and Flow control.

#### PORT Settings

Please be aware that speed must set as same as link partner. Otherwise, packet loss or link error might occur.

ID	Speed	Flow Control	Default Priority
01	Auto	Enable	0

Apply

Figure 18. Port Setting

#### Speed/Disable:

This setting has six modes—*100M Full*, *100M Half*, *10M Full*, *10M Half*, *Auto* and *Disable*—for speed or port disable selections.

#### Flow Control:

This setting determines whether or not the Switch will be handling flow control. Set Flow Control to *Enable* for avoiding data transfer overflow. If it is set to *Disable*, there is either no flow control or other hardware/software management.

When the port is set to *forced mode*, the flow control will automatically be set to *Disable*.

#### Default Priority:

The Default Priority is specific the 802.1P QoS priority level to related port, all of the received data packet will follow the Default Priority level forwarding data packet to other port.

---

### VLAN Settings (Virtual Local Area Network)

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A VLAN is a collection of switch ports that make up a single broadcast domain. You can configure a VLAN for a single switch, or for multiple switches. When you create a VLAN, you can control traffic flow and ease the administration of moves, adds, and changes on the network, by eliminating the need to change physical cabling.

On VLAN settings, there are two main settings, VID Table Setting, Port VLAN Setting, and Port Egress Setting.

**VID Table Setting:** Select the VID group that you set.

When you select VID Table Setting, press “Add new VID” to create new VID group, from port 01 ~ port 48, select Untag Port, Tag Port, or Not Member for each port. To save the VID group, press “Apply” button. To remove the selected VID group, select the VID group and press “Remove the VID” button. To modify the VID group setting, select the VID group and change the setting, and press “Apply” button to save the settings.

**Figure 19. VID Table Setting**

**Port VID Setting:**

When you select Port VLAN setting, fill in each port’s PVID value between 1 and 4094.

**Figure 20.**

## Port Egress Setting:

The Port Egress is used to set the 802.1Q VLAN Egress rule in each port; the selected port will include the TCI (Tag Control Information) data packets.

IEEE 802.1Q VLAN Port Egress Setting

Egress Rule	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Tag / Untag	<input type="checkbox"/>																							
Egress Rule	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Tag / Untag	<input type="checkbox"/>																							

Figure 21. Port Egress Setting

---

## Trunk Setting

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The Trunk function enables the Switch to cascade two or more devices with larger bandwidths.

There are ten Trunking groups to be set, and there are default ports in each member. Click “Enable” to use the trunk function, select the ports in each member to be trunk, and click “Apply” to activate the selected trunk group.

Trunk Setting

The selected trunk port setting must set to the same VLAN Group.

ID	Enable	Member
01	<input type="checkbox"/>	01 02 03 04 05 06 07 08 <input type="checkbox"/> <input type="checkbox"/>
02	<input type="checkbox"/>	09 10 11 12 13 14 15 16 <input type="checkbox"/> <input type="checkbox"/>
03	<input type="checkbox"/>	17 18 19 20 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
04	<input type="checkbox"/>	21 22 23 24 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
05	<input type="checkbox"/>	25 26 27 28 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
06	<input type="checkbox"/>	29 30 31 32 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
07	<input type="checkbox"/>	33 34 35 36 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
08	<input type="checkbox"/>	37 38 39 40 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
09	<input type="checkbox"/>	41 42 43 44 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
10	<input type="checkbox"/>	45 46 47 48 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Figure 22. Trunk Setting

Be sure that the selected trunk setting port is connected to the device with a same VLAN group.

## Mirror Setting

Port Mirroring is a method of monitoring network traffic that forwards a copy of each incoming and/or outgoing packet from one port of a network switch to another port where the packet can be studied. It enables the manager to keep close track of switch performance and alter it if necessary.

Configuring the port mirroring by assigning a source port from which to copy all packets and a sniffer port where those packets will be sent.

The selections of the sniffer mode are as follows:

**TX (transmit) mode:** This mode will duplicate the data transmitted from the source port and forward it to the sniffer port.

**RX (receive) mode:** This mode will duplicate the data sent to the source and forward it to the sniffer port.

**Both (transmit and receive) mode:** This mode will duplicate both the data transmitted from and data sent to the source port, then it will forward the data to the sniffer port.

Monitor Setting

Group 1	Sniffer Mode	Disable											
	Sniffer Port	▼											
	Source Port	01	02	03	04	05	06	07	08	09	10	11	12
		13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/>													
Group 2	Sniffer Mode	Disable											
	Sniffer Port	▼											
	Source Port	25	26	27	28	29	30	31	32	33	34	35	36
		37	38	39	40	41	42	43	44	45	46	47	48
<input type="checkbox"/>													

Apply

Figure 23. Mirror Setting

## Spanning Tree Setting

This Switch supports the 802.1d Spanning Tree Protocol.

Every segment will have a single path to the root bridge. All bridges listen for BPDU packets. However, BPDU packets are sent more frequently - with every Hello packet. BPDU packets are sent even if a BPDU packet was not received. Therefore, each link between bridges is sensitive to the status of the link. Ultimately this difference results in faster detection of failed links, and thus faster topology adjustment. A draw-back of 802.1d is this absence of immediate feedback from adjacent bridges.

### IEEE 802.1D Spanning Tree Setting

STP Function

 Disable  
 Enable

Bridge Priority(0 - 65535)

Bridge Max Age(6 - 40)

Bridge Hello Time(1 - 10)

Bridge Forward Delay(4 - 30)

Port	Path Cost	Priority	State	Port	Path Cost	Priority	State	Port	Path Cost	Priority	State	Port	Path Cost	Priority	State
01	4	128	Disable	02	4	128	Disable	03	4	128	Disable	04	4	128	Disable
05	4	128	Disable	06	4	128	Disable	07	4	128	Disable	08	4	128	Disable
09	4	128	Disable	10	4	128	Disable	11	4	128	Disable	12	4	128	Disable
13	4	128	Disable	14	4	128	Disable	15	4	128	Disable	16	4	128	Disable
17	4	128	Disable	18	4	128	Disable	19	4	128	Disable	20	4	128	Disable
21	4	128	Disable	22	4	128	Disable	23	4	128	Disable	24	4	128	Disable
25	4	128	Disable	26	4	128	Disable	27	4	128	Disable	28	4	128	Disable
29	4	128	Disable	30	4	128	Disable	31	4	128	Disable	32	4	128	Disable
33	4	128	Disable	34	4	128	Disable	35	4	128	Disable	36	4	128	Disable
37	4	128	Disable	38	4	128	Disable	39	4	128	Disable	40	4	128	Disable
41	4	128	Disable	42	4	128	Disable	43	4	128	Disable	44	4	128	Disable
45	4	128	Disable	46	4	128	Disable	47	4	128	Forward	48	4	128	Disable

Figure 24. Spanning Tree Setting

**STP Function:** To selecting enable or disable STP function on the Switch.

**Bridge Priority:** This value between 0 and 65535 to specify the priority for forwarding packets. The lower the value, the higher the priority. The default is 32768.

**Bridge Max Age:** This value may be set to ensure that old information does not endlessly circulate through redundant paths in the network, preventing the effective propagation of the new information. Set by the Root Bridge, this value will aid in determining that the Switch has spanning tree configuration values consistent with other devices on the bridged LAN. If the value ages out and a BPDU has still not been received from the Root Bridge, the Switch will start sending its own BPDU to all other switches for permission to become the Root Bridge. If it turns out that your switch has the lowest Bridge Identifier, it will become the Root Bridge. The user may choose a time between 6 and 40 seconds. The default value is 20.

**Bridge Hello Time:** The user may set the time interval between transmission of configuration messages by the root device, thus stating that the Switch is still functioning. A time between 1 and 10 seconds may be chosen, with a default setting of 2 seconds.

**Bridge Forward Delay:** The maximum amount of time (in seconds) that the root device will wait before changing states. The user may choose a time between 4 and 30 seconds. The default is 15 seconds.

**Port Path Cost:** This defines a metric that indicates the relative cost of forwarding packets to specified port list. The value between 1 and 65535 to determine the cost. The lower the number, the greater the probability the port will be chosen to forward packets. The default value is 10.

**Port Path Priority:** Select a value between 0 and 255 to specify the priority for a specified port for forwarding packets. The lower the value, the higher the priority. The default is 128.

---

## SNMP Setting

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Simple Network Management Protocol (SNMP) is an OSI Layer 7 (Application Layer) 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 the SNMP versions 1. In SNMP v.1, 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 SNMP v.1 management access are:

**public** - Allows authorized management stations to retrieve MIB objects.

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

### Traps

Traps are messages that 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 the trap recipient (or network manager). Typical traps include trap messages for Device boot up, Authentication Failure, Port status change and Abnormal transmit/receive data packet error.

## MIBs

Management and counter information are stored by the Switch in the Management Information Base (MIB). 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.

**Enabled / Disabled:** To selecting enable or disable SNMP function on the Switch.

**SNMP Community / Trap:** To configure the SNMP Community or SNMP Trap configuration.

### Configure SNMP Community:



The image shows a configuration window titled "SNMP Setting". At the top, there is a "SNMP Setting" label and a dropdown menu set to "Enabled". Below this, there is a "SNMP:" label and a dropdown menu set to "Community". The main area contains a table with columns "ID", "State", and "Community Name". There are two rows: one with ID "11", State "RO", and Community Name "public"; and another with ID "12", State "RW", and Community Name "private". Below the table are two buttons: "Delete Group" and "Add Group".

ID	State	Community Name
11	RO	public
12	RW	private

Figure 25. SNMP Community Setting

**Add Group:** To add a SNMP Community group, press “**Add Group**” button, the Add SNMP Community configuration window will pop out; fill in the community name and assign the community enable read\_only or read\_write. Press “Apply” button to execute the setting.



The image shows a configuration window titled "SNMP Community Set". It has two main sections. The first section is "Community Name" with a text input field. The second section is "Community Enable" with two radio button options: "Readonly (RO)" and "ReadWrite (RW)". Below these sections is an "Apply" button.

Figure 26. Add SNMP Community group

**Delete Group:** To delete previously defined SNMP Community group, press **“Delete Group”** button, the Delete SNMP Community configuration window will pop out; checked the delete dialog box. Press **“Apply”** to delete the selected SNMP Community Group.

SNMP Community Delete.

Delete	ID	State	Community Name
<input type="checkbox"/>	01	RO	public
<input type="checkbox"/>	02	RO	test2
<input checked="" type="checkbox"/>	03	RW	User

Figure 27. Delete SNMP Community group

**Modify Group:** To modify previously defined SNMP Community group, click on the **ID** parameter to enter to the selected SNMP Community Group to configure its community name and community enable. Press **“Apply”** to save change of the SNMP Community Group.

SNMP Community Set.

Community Name	<input type="text" value="User"/>
Community Enable	<input type="radio"/> Readonly (RO) <input checked="" type="radio"/> ReadWrite (RW)

Figure 28. Modify SNMP Community group

### Configure SNMP Trap:

SNMP Setting

SNMP:   Trap authentication fail

ID	Trap Name	IP	VID	Event
<a href="#">01</a>	public	0.0.0.0	0	None

Note:  
 S1: device bootup  
 F2: link up / link down  
 F3: abnormal receive error  
 F4: abnormal transmit error  
 T1: link up / link down  
 T2: abnormal receive error  
 T3: abnormal transmit error

Figure 29. Configure SNMP Trap Setting

**Trap authentication fail:** When checked the dialog box of the *Trap authentication fail*, when fail to authentication, the Switch will trap the authentication fail even to the SNMP host.

**Add Trap:** To create a recipient of SNMP traps generated by the Switch’s SNMP agent, press *“Add Trap”* button, and the SNMP Trap Set window will pop out; you can fill in the community name and trap IP address of the remote management station that will serve as the SNMP host for the Switch and checked the events selection to enabled selected event traps.

SNMP Trap Set.

Trap Community Name	<input type="text"/>
Trap IP	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> VID: <input type="text" value="1"/>
System Events	<input type="checkbox"/> device bootup
Fiber Port Events	<input type="checkbox"/> link up / link down <input type="checkbox"/> abnormal receive error <input type="checkbox"/> abnormal transmit error
Twisted Pair Port Events	<input type="checkbox"/> link up / link down <input type="checkbox"/> abnormal receive error <input type="checkbox"/> abnormal transmit error

Figure 30. Add SNMP Trap

**Delete Trap:** To delete previously defined SNMP Trap, press *“Delete Trap”* button, the Delete SNMP Trap Delete configuration window will pop out; checked the delete dialog box. Press *“Apply”* to delete the selected SNMP Trap setting.

SNMP Setting

SNMP:   Trap authentication fail

ID	Trap Name	IP	Event
01	public	0.0.0.0	None
02	public	192.168.0.10	S1, F2, F3, F4, T1, T2, T3

Note:  
 S1: device bootup  
 F2: link up / link down  
 F3: abnormal receive error  
 F4: abnormal transmit error  
 T1: link up / link down  
 T2: abnormal receive error  
 T3: abnormal transmit error

Figure 31. Delete SNMP Trap

**Modify Trap:** To modify previously defined SNMP Trap, click on the **ID** parameter to enter to the selected SNMP Trap to configure its community name, IP address and events. Press **“Apply”** to save change of the SNMP Trap.

SNMP Trap Set

Trap Community Name	public
Trap IP	0 . 0 . 0 . 0
System Events	<input checked="" type="checkbox"/> device bootup
Fiber Port Events	<input checked="" type="checkbox"/> link up / link down <input type="checkbox"/> abnormal receive error <input type="checkbox"/> abnormal transmit error
Twisted Pair Port Events	<input checked="" type="checkbox"/> link up / link down <input type="checkbox"/> abnormal receive error <input type="checkbox"/> abnormal transmit error

Apply

Figure 32. Modify SNMP Trap

### Jumbo Frame Setting

To enable or disable the Jumbo Frame function on the Switch.

Jumbo Frame Setting

Jumbo Frame  Disable  Enable

Apply

Figure 33. Jumbo frame setting

### QoS Setting

To set the Switch QoS base on IEEE 802.1p,

Quality of Service IEEE 802.1P Based

Priority	QoS	Priority	QoS	Priority	QoS	Priority	QoS
0	Normal	1	Normal	2	Normal	3	Normal
4	Normal	5	Normal	6	Normal	7	Normal

Apply

Figure 34. 802.1P-based QoS Setting

## Device Status

Click on the “*Status*” button to display the device status on this screen. It will display the System Status, Port Status, VLAN Status, Trunk Status, and Mirror Status.

Press “*Refresh*” when you need to renew the posted information.

Switch Status Refresh

Product Name	D08-1248T
Firmware Version	2.00.15
Protocol Version	2.001.001
IP Address	172.21.41.96
Subnet mask	255.255.240.0
Default gateway	172.21.32.254
Trap IP	0.0.0.0
MAC address	00-12-45-84-68-68
System Name	
Location Name	
Login Timeout (minutes)	5
System Up Time	1 days 23 hours 28 mins 34 seconds

PORT Status

10/100/1000 Mbps									
ID	Speed	Flow Control	Default Priority	Link Status	ID	Speed	Flow Control	Default Priority	Link Status
01	Auto	Enable	0	Down	23	Auto	Enable	0	Down
02	Auto	Enable	0	Down	24	Auto	Enable	0	Down
03	Auto	Enable	0	Down	25	Auto	Enable	0	Down
04	Auto	Enable	0	Down	26	Auto	Enable	0	Down
05	Auto	Enable	0	10 Full	27	Auto	Enable	0	Down
06	Auto	Enable	0	Down	28	Auto	Enable	0	Down
07	Auto	Enable	0	Down	29	Auto	Enable	0	Down
08	Auto	Enable	0	Down	30	Auto	Enable	0	Down
09	Auto	Enable	0	Down	31	Auto	Enable	0	Down
10	Auto	Enable	0	Down	32	Auto	Enable	0	Down
11	Auto	Enable	0	Down	33	Auto	Enable	0	Down
12	Auto	Enable	0	Down	34	Auto	Enable	0	Down

Figure 35

## Statistics

The Statistics Menu screen will show the status of each port packet count.

Statistics Refresh Clear Counters

ID	Tx	Rx	Tx Error	Rx Error	ID	Tx	Rx	Tx Error	Rx Error
10/100/1000 Mbps									
<a href="#">01</a>	0	0	0	0	<a href="#">23</a>	0	0	0	0
<a href="#">02</a>	0	0	0	0	<a href="#">24</a>	0	0	0	0
<a href="#">03</a>	0	0	0	0	<a href="#">25</a>	0	0	0	0
<a href="#">04</a>	0	0	0	0	<a href="#">26</a>	0	0	0	0
<a href="#">05</a>	4	20	0	0	<a href="#">27</a>	0	0	0	0
<a href="#">06</a>	0	0	0	0	<a href="#">28</a>	0	0	0	0
<a href="#">07</a>	0	0	0	0	<a href="#">29</a>	0	0	0	0
<a href="#">08</a>	0	0	0	0	<a href="#">30</a>	0	0	0	0
<a href="#">09</a>	0	0	0	0	<a href="#">31</a>	0	0	0	0
<a href="#">10</a>	0	0	0	0	<a href="#">32</a>	0	0	0	0
<a href="#">11</a>	0	0	0	0	<a href="#">33</a>	0	0	0	0
<a href="#">12</a>	0	0	0	0	<a href="#">34</a>	0	0	0	0
<a href="#">13</a>	0	0	0	0	<a href="#">35</a>	0	0	0	0
<a href="#">14</a>	0	0	0	0	<a href="#">36</a>	0	0	0	0
<a href="#">15</a>	0	0	0	0	<a href="#">37</a>	0	0	0	0
<a href="#">16</a>	0	0	0	0	<a href="#">38</a>	0	0	0	0
<a href="#">17</a>	0	0	0	0	<a href="#">39</a>	0	0	0	0
<a href="#">18</a>	0	0	0	0	<a href="#">40</a>	0	0	0	0
<a href="#">19</a>	0	0	0	0	<a href="#">41</a>	0	0	0	0
<a href="#">20</a>	0	0	0	0	<a href="#">42</a>	0	0	0	0
<a href="#">21</a>	0	0	0	0	<a href="#">43</a>	0	0	0	0
<a href="#">22</a>	0	0	0	0	<a href="#">44</a>	0	0	0	0
<a href="#">45</a>	0	0	0	0	<a href="#">46</a>	0	0	0	0
<a href="#">47</a>	0	0	0	0	<a href="#">48</a>	0	0	0	0

Figure 36

For detailed packet information, click on the ID parameter as in Figure 37.

Port Statistics

Refresh

Port	01		
<b>Receive Total</b>		<b>Transmit Total</b>	
Packets	0	Packets	0
Bytes	0	Bytes	0
Broadcast	0	Broadcast	0
Multicast	0	Multicast	0
Unicast Pkts	0	Unicast Pkts	0
PausePkts	0	PausePkts	0
Fragments	0	Collisions	0
		SingleCollision	0
		Multiple Collision	0
		Excessive Collisions	0
		Late Collision	0
<b>Receive Size Counters</b>		<b>Transmit Size Counters</b>	
64 Bytes	0	64 Bytes	0
65 - 127 Bytes	0	65 - 127 Bytes	0
128 - 255 Bytes	0	128 - 255 Bytes	0
256 - 511 Bytes	0	256 - 511 Bytes	0
512 - 1023 Bytes	0	512 - 1023 Bytes	0
1024 - Bytes	0	1024 - Bytes	0
<b>Receive Error Counters</b>		<b>Transmit Error Counters</b>	
CRC/Alignment	0	FIFO Drops	0
Undersize	0	Deferred Transmit	0
Oversize	0	FrameInDisc	0
ExcessSizeDisc	0		
Jabber	0		
Drops	0		
SA Changes	0		
SymbolErrors	0		
FCS Errors	0		

Figure 37. Port Statistic

---

## System Setting

---

The System Setting includes the System name, Location name, Login Timeout, IP Address, Subnet Mask, and Gateway. Through the Web Management Utility, you can easily recognize the device by using the System Name and the Location Name.

The Login Timeout is to set the idle time-out for security issues. When there is no action in running the Web Smart Utility and it times out, you must re-login to Web Smart Utility before you set the Utility.

Fill in the IP Address, Subnet Mask and Gateway for the device.

### System Setting

System Name	<input type="text" value="48P Gigabit Switch"/>
Location Name	<input type="text" value="R. &amp; D."/>
Login Timeout (3 - 30 minutes)	<input type="text" value="5"/>
<b>IP Address</b>	
IP address	<input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="0"/> <input type="text" value="177"/>
Subnet mask	<input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="0"/>
Gateway	<input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="0"/> <input type="text" value="254"/>
<input type="button" value="Apply"/>	

Figure 38.

---

## Trap Setting

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The Trap Setting enables the device to monitor the Trap through the Web Management Utility, set the Trap IP Address of the manager where the trap to be sent.

Trap Setting

Trap IP	<input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="0"/> <input type="text" value="10"/>
System Events	<input checked="" type="checkbox"/> device bootup <input checked="" type="checkbox"/> illegal login
Fiber Port Events	<input type="checkbox"/> link up / link down <input type="checkbox"/> abnormal receive error <input type="checkbox"/> abnormal transmit error
Twisted-Pair Port Events	<input checked="" type="checkbox"/> link up / link down <input type="checkbox"/> abnormal receive error <input type="checkbox"/> abnormal transmit error

Figure 39. Trap Setting

**System Events:** Monitoring the system's trap.

**Device Bootup:** a trap when booting up the system.

**Illegal Login:** a trap when there is using a wrong password login, and it will record from where the IP to be login.

**Fiber Port Events:** Monitoring the Fiber port status.

**Link Up/Link Down:** a trap when there is linking status happens in fiber port.

**Abnormal\* Receive Error:** a trap when there are receive data error in fiber port.

**Abnormal\* Transmit Error:** a trap when there are transmit data error in fiber port.

**Copper Port Events:** Monitoring the Copper port status.

**Link Up/Link Down:** a trap when there is linking status happens in copper port.

**Abnormal\* Receive Error:** a trap when there are receive data error in copper port.

**Abnormal\* Transmit Error:** a trap when there are transmit data error in coppert port.

*Abnormal\*: 50 error packet count within 10 seconds.*

---

## Password Setting

---

Password is the invaluable tool for the manager to secure the Web Management Switch. You can use this function to change the password.

If you forget the password, press the “Reset” button in the rear panel of the Switch. The current setting includes VLAN, Port Setting... etc. will be lost and the Switch will be restored to the default setting.

### Password Setting

The maximum length is 20 and is case-sensitive.

Old Password	<input type="text"/>
New Password	<input type="text"/>
Re-type New Password	<input type="text"/>

Figure 40. Set Password

---

## Backup Setting

---

The backup tools help you to backup the current setting of the Switch. Once you need to backup the setting, press the “Backup” button to save the setting. To restore a current setting file to the device, you must specify the backup file and press the “Restore” button to process the setting of the recorded file.

### Backup Setting

Note: the switch will reboot after successfully restoring the backup file.

Backup current setting to file :	<input type="button" value="Backup"/>
Restore saved setting from file :	<input type="button" value="Restore"/> <input type="text"/> <input type="button" value="Browse..."/>

Figure 41. Backup Setting

*Note: When restoring a recorded file, the current password will not be erased.*

---

## Reset Setting

---

The Factory Reset button helps you to reset the device back to the default setting from the factory. Be aware that the entire configuration will be reset; the IP address of the device will be set to the default setting of 192.168.0.1.

### Factory Reset

**Note:** all configuration settings will return to their default value.



Figure 42. Reset Setting

---

## Logout

---

When you select this function, the Web configuration will log out and return to first Login page.

A screenshot of a web login page. The page has a blue header with the word "Login" in white. Below the header, there is a light blue box containing system information: "System Name :", "Location Name :", "IP Address : 172.16.2.25", and "MAC Address : 00-11-11-11-11-27". Below this information is a "Password" label, a white text input field, and a "Login" button.

Figure 43. Logout

## TECHNICAL SPECIFICATIONS

General	
Standards	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3x Full Duplex Flow Control IEEE 802.3z 1000BASE-SX/LX Gigabit Ethernet
Protocol	CSMA/CD
Data Transfer Rate	Ethernet: 10Mbps (half-duplex), 20Mbps (full-duplex) Fast Ethernet: 100Mbps (half-duplex), 200Mbps (full-duplex) Gigabit Ethernet: 2000Mbps (full-duplex)
Topology	Star
Network Cables	10BASE-T: 2-pair UTP Cat. 3, 4, 5; up to 100m 100BASE-TX: 2-pair UTP Cat. 5; up to 100m 1000BASE-T: 4-pair UTP Cat. 5; up to 100m Fiber module: mini-GBIC Fiber module
Number of Ports	48 × 10/100/1000Mbps Auto-MDIX RJ-45 ports 4 × mini-GBIC fiber slots
Physical and Environmental	
AC inputs	100-240V AC, 50-60 Hz internal universal power supply
Power Consumption	68.88 Watts (Max)
Temperature	Operating: 0° ~ 40° C (32° ~ 104° F), Storage: -10° ~ 70° C (14° ~ 158° F)
Humidity	Operating: 10% ~ 90%, Storage: 5% ~ 90%
Dimensions	440 x 310 x 44 mm (W x H x D) (17.3 x 12.2 x 1.7 in)
EMI:	FCC Class A, CE Mark Class A, VCCI Class A
Safety:	CUL

<b>Performance</b>	
Transmits Method:	Store-and-forward
Filtering Address Table:	8K entries per device
Packet Filtering/Forwarding Rate:	10Mbps Ethernet: 14,880/pps 100Mbps Fast Ethernet: 148,800/pps 1000Mbps Gigabit Ethernet: 1,488,000/pps
MAC Address Learning:	Automatic update
Transmits Method:	Store-and-forward
RAM Buffer:	1632KBytes per device

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

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

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

- Hardware (excluding power supplies and fans): Five (5) Years
- Power supplies and fans: One (1) Year
- Spare parts and spare kits: Ninety (90) days

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

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

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

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

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

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

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

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

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

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

## ***Product Registration***

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

# International Offices

## U.S.A

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FAX: 886-2-2914-6299  
URL: [www.dlink.com.tw](http://www.dlink.com.tw)

# Registration Card

## All Countries and Regions Excluding USA

*Print, type or use block letters.*

Your name: Mr./Ms \_\_\_\_\_

Organization: \_\_\_\_\_ Dept. \_\_\_\_\_

Your title at organization: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Organization's full address: \_\_\_\_\_

Country: \_\_\_\_\_

Date of purchase (Month/Day/Year): \_\_\_\_\_

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

(\* Applies to adapters only)

*Product was purchased from:*

Reseller's name: \_\_\_\_\_

Telephone: \_\_\_\_\_

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

**1. Where and how will the product primarily be used?**

Home Office Travel Company Business Home Business Personal Use

**2. How many employees work at installation site?**

1 employee 2-9 10-49 50-99 100-499 500-999 1000 or more

**3. What network protocol(s) does your organization use ?**

XNS/IPX TCP/IP DECnet Others \_\_\_\_\_

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

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

**5. What network management program does your organization use ?**

D-View HP OpenView/Windows HP OpenView/Unix SunNet Manager Novell NMS  
NetView 6000 Others \_\_\_\_\_

**6. What network medium/media does your organization use ?**

Fiber-optics Thick coax Ethernet Thin coax Ethernet 10BASE-T UTP/STP  
100BASE-TX 1000BASE-T Wireless 802.11b and 802.11g wireless 802.11a Others \_\_\_\_\_

**7. What applications are used on your network?**

Desktop publishing Spreadsheet Word processing CAD/CAM  
Database management Accounting Others \_\_\_\_\_

**8. What category best describes your company?**

Aerospace Engineering Education Finance Hospital Legal Insurance/Real Estate Manufacturing  
Retail/Chain store/Wholesale Government Transportation/Utilities/Communication VAR  
System house/company Other \_\_\_\_\_

**9. Would you recommend your D-Link product to a friend?**

Yes No Don't know yet

**10. Your comments on this product?**

\_\_\_\_\_  
 \_\_\_\_\_

PLEASE  
PLACE STAMP  
HERE

**TO:**

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**D-Link<sup>®</sup>**