



GIGABIT MANAGED PoE SWITCH



DN-95351 (16 Port)



DN-95352 (24 Port)

Quick Start Guide

Introduction

Gigabit managed switch designed and developed solely for the purpose of building high-performance gigabit network requirements. Provide a comprehensive security protection system Perfect QoS strategy and rich VLAN function Management and maintenance are simple and can be applied to small and medium enterprises Core layer of community and school.

Parameter

- Support Port/MAC/IP/VLAN ID four Yuan intelligent scanning binding
- Quickly locate user information, simplify operation and simplify network management.
- The CPU frequency of 500Mhz, 128M flash, 4M cache, 128M RAM.
- Support IEEE 802.1Q VLAN, Voice VLAN and other rich VLAN function.
- The comprehensive security system, tackling the problem, ensure long term stable operation of the network.
- The rich QoS strategy and control function of ACL multi-service access, efficient integration of operation.
- Support multiple spanning tree protocol and port aggregation; improve the ability to link redundancy backup.
- Support STP, RSTP, MSTP fast spanning tree protocol; support EPPS, EAPS ring network protocol.
- The visual interface of POE, standard POE duty management
- Support the CLI command line, Web network, SNMP SSH, a variety of management methods.
- The multiple timing restart function.
- We provide network diagnosis, cable detection, system log function.

Item list:

Please open the switch package carefully, confirm the packing box should be as follows:

- 1*Managed Switch
- 1*power cable
- 1*User Manual
- 2*mounting brackets
- 4*mats
- 6*brackets screw

Product Display

Front panel sketch map

1. DN-95351: 16*10/100/1000M PoE Port+2*1000M SFP+1*Console, Rackmount, 19-inch steel case.



2. DN-95352: 24*10/100/1000M PoE Port+2*1000M SFP+1*Console, Rackmount, 19-inch steel case



- PWR:** The indicator lights up to indicate that the switch is connected to the power supply.
- SYS:** CPU state indicator light, after the initialization is completed, per-second flicker once.
- PoE:** The indicator lights up, corresponding port is supplying power to the connecting device
- Giga/1000M:** The transmission rate of the corresponding port is 1000M
- Link:** Data transmission on the corresponding port

Back panel sketch map

1. The 19-inch steel case, back panel sketch map



Power adapter interface: The power supply of the switch is inserted into the port, insert additional adapter

Single phase three wire socket: The power supply of the switch is inserted into the port, and the input voltage of AC terminal is 100-240V 50/60Hz

Grounding: Make the equipment ground

Product mounting

Attention

In order to avoid improper use of equipment damage and personal injury, please note the following:

1. During the installation, the power supply remains closed, while wearing anti-static wrist, and ensure that anti-static wrist and skin good contact, to avoid potential safety hidden danger;
2. The switch can work normally under the correct power supply. Please confirm that the supply voltage is consistent with the voltage indicated by the switch;
3. Before the switch is switched on, please confirm that it will not cause overload of the power circuit, so as not to affect the normal operation of the switch or even cause unnecessary damage;
4. In order to avoid the risk of electric shock, switch work should not open the shell, even in the case of no electricity, do not open on its own;
5. Before cleaning the switch, the switch power plug should be pulled out, please do not wipe with wet fabric, please don't use liquid cleaning;
6. Install the equipment rack generally from the bottom, avoid overload installation;
7. The switch surface to avoid placing other heavy objects, so as to avoid accidents.

Mounting Switch

Rack Mounting

1. Check the grounding and stability of the rack.
2. Secure the supplied rack-mounting brackets to each side of the device with supplied screws, as illustrated in the following figure.
3. After the brackets are attached to the device, use suitable screws (not provided) to secure the brackets to the rack, as illustrated in the following figure.



Figure 2-1 Bracket Installation

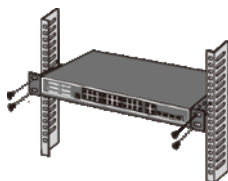


Figure 2-2 Rack Installation

Desktop mounting

1. To install the device on the desktop, please follow the steps:
2. Set the device on a flat surface strong enough to support the entire weight of the device with all fittings.
3. Remove the adhesive backing papers from the rubber feet.
4. Turnover the device and attach the supplied rubber feet to the recessed areas on the bottom at each corner of the device.

Connect Port

Connect Ethernet port

Connect an Ethernet port of the switch to the device by RJ45 cable as the following figure shows



Figure 3-1 Connect Ethernet port

Connect SFP port

The optical fiber module is grabbed from the side and inserted smoothly along the switch SFP slot until the optical module is in close contact with the switch.

Note: to avoid improper operation cause damage to equipment or personal injury, please pay attention to the following matters

- Excessive bending of optical fibers is not allowed, and the radius of curvature should not be less than 10cm.
- Ensure the cleanliness at the end of the fiber.
- Please do not look directly at the optical fiber connector; otherwise it may cause damage to your eyes.

Remarks: it is recommended to adopt straight line -568B international standard connection method, as the following figure shows

Power supply socket specification

Switch power line single-phase three wire power socket, the middle foot to ground, and the left foot on the right foot for the zero line and FireWire, please check before the operation.

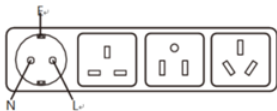


Figure 4-1 Single phase three wire power outlet

Connect the power cord

The Rackmount direct access to AC100~240V, 50~60Hz city electricity

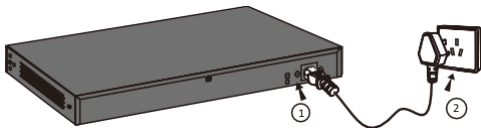


Figure 4-2 Power core connect

Connecting to the Ground

The grounding cable is important to protect the switch from electrical interference. It is advised to use the grounding cable; if your power is ungrounded which could damage the switch or its functionality

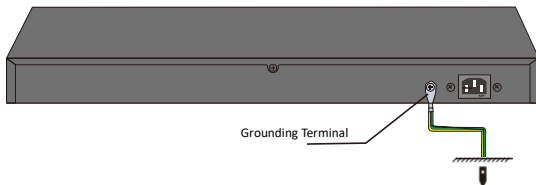


Figure 4-4 Connecting Grounding Terminal

Note: The grounding bar and the ground cable are not provided with our product. If needed, please self-purchase them.

Check after installation

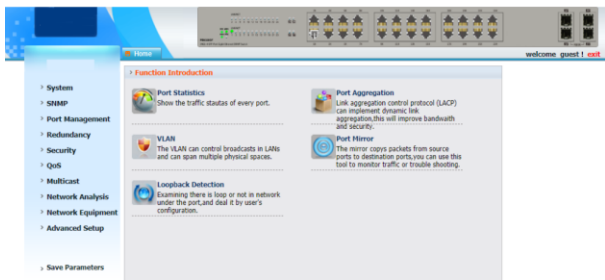
Please check the following items after installation:

- check whether there is enough space for heat exchange, air circulation is smooth
- check the power supply socket power supply switch is in accordance with the specifications
- check the power supply, switchboard, rack and other equipment have been properly grounded

Login the Device

The machine-default IP address is 192.168.2.11, subnet mask is 255.255.255.0. So when you log on to the switch, make sure the IP address of the computer network card and the IP of the switch in the same network segment: 192.168.2. *** (1 <*** <255, *** is not equal to 11).

Please enter user name: **guest**, password: **guest**, then you can use the web browser-based configuration to manage switch.



Managed PoE Switch Hardware Parameters

Type	DN-95351	DN-95352
Port	16*10/100/1000M	24*10/100/1000M
	2*SFP	2*SFP
	1*Console	1*Console
PoE standards	IEEE802.3af/at, single port PoE power 30W	
PoE Port	16	24
PoE Budget	380W	
Reset	1	
Bandwidth	56Gbps	56Gbps
Packet forwarding	40.32Mpps	40.32 Mpps
CPU	500Mhz	
RAM	128M	
MAC	8K	
Buffer	4.1M	
FLASH	128M	
Transmission	Store and forward	
Working temperature	0°C~50°C	
Storage temperature	-40°C ~70°C	
Operating humidity	10%~90% Non-coagulation	
Storage humidity	5%~95% Non-coagulation	
Product size	440*290*45mm	
Packing size	497*313*97mm	
Power in	AC 100-240V, 50/60Hz	
Power Supply	400W	

Management switch WEB software function

Standards	IEEE 802.3x IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z IEEE 802.3ad IEEE 802.3q, IEEE 802.3q/p IEEE 802.1w, IEEE 802.1d, IEEE 802.1S, IEEE802.1X
MAC Address	16K MAC addresses; MAC address learning and aging
VLAN	STP (Spanning Tree Protocol) Up to 4095 VLAN Voice VLAN, can configure QoS for voice data 4k VLANs; Port-based VLANs ; 802.1Q VLAN
Spanning Tree	STP (Spanning Tree Protocol) RSTP/MSTP (Rapid Spanning Tree Protocol) EPPS ring network protocol 802.1x argumentation agreement
Link Aggregation	Max 8 aggregation groups TRUNK, each supports 8 ports Static aggregation and dynamic aggregation
Port Mirror	Many-to-one port mirroring
Loop Guard	Loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking, automatic recovery
Isolation	Support downlink ports isolated from each other and communicate with upstream port
Port flow control	Half duplex based back pressure control Full duplex based on PAUSE frames
Line rate	Support port-based input / output bandwidth management
IP binding	Support static ARP
Static routing	Support static routing
IGMP Snooping	Support 256 layers of set table capacity IGMPv1/2/3 and MLDv1/2 Snooping GMRP protocol registration Multicast address management, multicast VLAN, multicast routing ports, static multicast addresses
DHCP	DHCP Snooping
Storm suppression	Unknown unicast, multicast, unknown multicast, storm suppression of broadcast type Storm suppression based on bandwidth tuning and storm filtering

Security	Support 256 groups of ACL Teams that support 4 different priorities per port User port + IP address + MAC ACL based on IP and MAC Security properties of port-based MAC address quantities Support system CPU self-protection
QOS	802.1p port queue priority algorithm Teams that support 4 different priorities per port Cos/Tos, QOS sign WRR (Weighted Round Robin), Weighted priority rotation algorithm WRR, SP, WFQ, 3 priority scheduling models Support based on port, MAC, 802.1Q, DSCP classification
Port	Auto-MDIX; Auto negotiation
System maintenance	Upgrade package upload system log view Support to upload / download configuration files through WEB Support multiuser management WEB restore factory configuration
PoE Management	Open or close port Standard POE scheduling management Power and current display Automatic restarting function of equipment dead machine Timing reactivation Support IP bindings restarting
Management & maintenance	WEB NMS CLI Telnet, TFTP Console, management based on Remote configuration and maintenance using Telnet SNMP V1/V2/V3; SSH V1/V2; RMON V1/V1

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www.assmann.com
Assmann Electronic GmbH
Auf dem Schüffel 3
58513 Lüdenscheid
Germany

