

16-PORT 10/100MBPS PoE WEB SMART ETHERNET SWITCH



24-PORT 10/100MBPS + 2G COMBO PoE WEB SMART ETHERNET SWITCH



Manual DN-95312 • DN-95313

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Chapter 1 Product Introduction

Congratulations on your purchasing of DIGITUS PoE Web Smart Ethernet Switch. Before you install and use this product, please read this manual carefully for full exploiting the functions of this product.

1.1 Product Overview

The 10/100Mbps PoE Web Smart Ethernet Switch provides the seamless network connection. It integrates 100Mbps Fast Ethernet and 10Mbps Ethernet network capabilities.

These POE ports can automatically detect and supply power with those IEEE 802.3at compliant Powered Devices (PD). In this situation, the electrical power is transmitted along with data in one single cable allowing you to expand your network where there are no power lines or outlets, where you wish to fix devices such as AP, IP Cameras or IP Phones, etc.

The Switch may carry on the management and the condition monitoring through the network management software to the POE power supply function, may demand opens or the closure port POE power supply function willfully, provides the port power supply priority management, the 10/100M POE Switch is a great selection for expanding your home or office network.

1.2 Features

- > 1-16/24port support POE
- Supports PoE power up to 30W for each PoE port
- Supports power up to 260W/330W
- Supports PoE IEEE802.3at compliant PDs
- Supports IEEE802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode
- > 4K entry MAC address table with auto-learning and auto-aging
- > LED indicators for monitoring power, link, activity and speed
- Internal power supply

1.3 External Component Description

1.3.1 Front Panel

The front panel of the Switch consists of series of LED indicators, 24 10/100Mbps RJ-45 ports, 2 10/100/1000Mbps RJ-45 ports and 2 SFP ports a shown as below.



Figure 1 - Front Panel

10/100Mbps RJ-45 ports (1~24):

Designed to connect to the device with a bandwidth of 10Mbps or 100Mbps. Each has a corresponding 10/100Mbps LED.

10/100/1000Mbps RJ-45 ports (25T, 26T):

Designed to connect to the device with a bandwidth of 10Mbps, 100Mbps or 1000Mbps. Each shares a corresponding LED with an associated SFP port.

SFP ports (25S, 26S):

Designed to install the SFP module. The Switch features two SFP transceiver slots that are shared with two associated RJ45 ports. A SFP port and an associated RJ45 port are referred to as "Combo" port, which means they cannot be used simultaneously, and only SFP port work or only RJ45 port work at the same time.

Reset:

Keep the device powered on and push a paper clip into the hole. Press down the button for about 2 seconds. The system restores the factory default settings.

1.3.2 Rear Panel

The rear panel of the Switch contains AC power connector shown as below.



Figure 2 - Rear Panel

AC Power Connector:

Power is supplied through an external AC power adapter. It supports AC 100 \sim 240V, 50 / 60Hz.

Grounding Terminal:

The Switch already comes with Lightning Protection Mechanism. You can also ground the Switch through the PE (Protecting Earth) cable of AC cord or with Ground Cable.

1.3.3 LED Indicator Specification

The LED indicators of the Switch contain one Power, 26 LINK/ACT, 24 PoE status and 2 Speed. The LED Indicators will allow you to monitor, diagnose and troubleshoot any potential problem with the Switch, connection or attached devices.



Figure 3 - LED Indicators

The following chart shows the LED indicators of the Switch along with explanation of each indicator.

LED	COLOR	STATUS	STATUS DESCRIPTION
Power	Croon	On	Power On
Fower	Gleen	Off	Power Off
		On	A device is connected to the port
$(1 \sim 24)$	Green	Off	A device is disconnected to the port
(1~24)		Flashing	Sending or receiving data
		On	A device is connected to the port
	Croop	Off	A device is disconnected to the port
DE DETIS	Gleen	Flashing	Sending or receiving data
25, 201/5	Onesd	On	A 1000Mbps device is connected to the port
	Speed	Off	A 10Mbps device is connected to the port
	Green	Flashing	A 100Mbps device is connected to the port
		05	A Powered Device is connected to the port,
		OII	which supply power successfully.
			No Powered Device connected to the port, or
POE	POE Orange		no power is supplied according to the power
			limits of the port.
		Flashing	The POE power circuit may be in short or the
		i iasililiy	power current may be overloaded.

1.3.4 Front Panel

The front panel of the Switch consists of series of LED indicators and 16 10/100Mbps RJ-45 ports.



Figure 1 - Front Panel

10/100Mbps RJ-45 ports (1~16):

Designed to connect to the device with a bandwidth of 10Mbps or 100Mbps. Each has a corresponding 10/100Mbps LED.

Reset:

Keep the device powered on and push a paper clip into the hole. Press down the button for about 2 seconds. The system restores the factory default settings.

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• Po	wer						
•	•	•	•	•	•	•	LNK/AGT
				10		14	16
•	•	•	•	•	•	•	• NE
•	•	•	•	•	•	•	LNK/ACT
•	•	•	•	•	•	•	PvE

Figure 3 - LED Indicators

The following chart shows the LED indicators of the Switch along with explanation of each indicator.

LED	COLOR	STATUS	STATUS DESCRIPTION
Dowor	Croon	On	Power On
Power	Green	Off	Power Off
		On	A device is connected to the port
LINR/ACT	Green	Off	A device is disconnected to the port
(1~10)		Flashing	Sending or receiving data
		On	A Powered Device is connected to the port,
		OII	which supply power successfully.
			No Powered Device connected to the port, or
POE	Orange	Off	no power is supplied according to the power
			limits of the port.
		Elashing	The POE power circuit may be in short or the
		i lastilliy	power current may be overloaded.

1.4 Environment

- ➢ Operating Temperature: 0°C ~40°C
- Storage Temperature: -10°C ~70°C
- > Operating Humidity: 10%~90% non-condensing
- Storage humidity: 5%~90% non-condensing

1.5 Package Contents

- > One POE Web Smart Ethernet Switch
- Four rubber feet, two mounting ears and eights screws
- One AC power cord
- One User Manual

Chapter 2 Installing and Connecting the Switch

This part describes how to install your Ethernet Switch and make connections to it. Please read the following topics and perform the procedures in the order being presented.

2.1 Installation

Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

- > Put the Switch on stable place or desktop in case of falling damage.
- Make sure the Switch works in the proper AC input range and matches the voltage labeled on the Switch.
- To keep the Switch free from lightning, do not open the Switch's shell even in power failure.
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch.
- > Make sure the cabinet to enough back up the weight of the Switch and its accessories.

2.1.1 Desktop Installation

Sometimes users are not equipped with the 19-inch standard cabinet. So when installing the Switch on a desktop, please attach these cushioning rubber feet provided on the bottom at each corner of the Switch in case of the external vibration. Allow adequate space for ventilation between the device and the objects around it.



Figure 4 - Desktop Installation

2.1.2 Rack-mountable Installation in 19-inch Cabinet

The Switch can be mounted in an EIA standard-sized, 19-inch rack, which can be placed in a wiring closet with other equipment. To install the Switch, please follow these steps:

1. Attach the mounting brackets on the Switch's side panels (one on each side) and secure them with the screws provided.



Figure 5 - Bracket Installation

2. Use the screws provided with the equipment rack to mount the Switch on the rack and tighten it.



Figure 6 - Rack Installation

2.1.3 Power on the Switch

The Switch is powered on by the AC $100 \sim 240V 50 / 60Hz$ internal high-performance power supply. Please follow the next tips to connect:

AC Electrical Outlet:

It is recommended to use single-phase three-wire receptacle with neutral outlet or multifunctional computer professional receptacle. Please make sure to connect the metal ground connector to the grounding source on the outlet.

AC Power Cord Connection:

Connect the AC power connector in the back panel of the Switch to external receptacle with the included power cord, and check the power indicator is ON or not. When it is ON, it indicates the power connection is OK.

2.2 Connect Computer (NIC) to the Switch

Please insert the NIC into the computer, after installing network card driver, please connect one end of the twisted pair to RJ-45 jack of your computer, the other end will be connected to any RJ-45 port of the Switch, the distance between Switch and computer is around 100 meters. Once the connection is OK and the devices are power on normally, the LINK/ACT status indicator lights corresponding ports of the Switch.

2.3 Switch connection to the PD

1-16/24 ports of the Switch have POE power supply function, the maximum output power up to 30W each port, it can make PD devices, such as internet phone, network camera, wireless access point work. You only need to connect the Switch POE port directly connected to the PD port by network cable.

Chapter 3 How to Login the Switch

3.1 Switch to End Node

Use standard Cat.5/5e Ethernet cable (UTP/STP) to connect the Switch to end nodes as described below. Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which is connected.



Please refer to the *LED Indicator Specification*. The LINK/ACT LEDs for each port lights green when the link is available.

3.2 How to Login the Switch

As the Switch provides Web-based management login, you can configure your computer's IP address manually to log on to the Switch. The default settings of the Switch are shown below.

Parameter	Default Value
Default IP address	192.168.2.1
Default user name	admin
Default password	admin

You can log on to the configuration window of the Switch through following steps:

- 1. Connect the Switch with the computer NIC interface.
- 2. Power on the Switch.
- 3. Check whether the IP address of the computer is within this network segment: 192.168.2.xxx ("xxx" ranges 2~254), for example, 192.168.2.100.
- 4. Open the browser, and enter <u>http://192.168.2.1</u> and then press "Enter". The Switch login window appears, as shown below.

SmartSwitch Web-Base Cor File Edt New Fevorites To	ntrollier – Microsoft Internet Explorer ols – Help	
Stack + (2) - (2) (2)	South Antonia 🛛 😒 🖓 🖼 🕉	
	USER LOG IN	
	ID: Passwortt	
	OK	
Done:		1 Internet

5. Enter the ID and Password (The factory default login ID is **admin** and Password is **admin**), and then click "OK" to log in to the Switch configuration window as below.

DIGITUS"		ėş		26
Alternature + automation	Authentication 0	Configurati	on	
A Datas P	Betting		Value	
· Dollary Dates	Usemame	attin	max:15	
Constantiation Personal laster Personal Design	Passeord Confirm		max 15	
- Ref		1	Opdate	
Full Sadius Full Full	Note: Duernam & Password a	an anly use '	n-1, 74-27, 70-97, 7, 7, 747, 7-7, 7	
> Gelt Setting				
> Security				
> Truesag				
> CHCP Rang Agent				
> BackasRecovery				
> Discriments				
a sere percept				

(24-port version view)

In the Web GUI, the left column shows the configuration menu and the rest of the screen area displays the configuration settings.

Chapter 4 Switch Configuration

4.1 Administrator

4.1.1 Authentication configuration

Authentication Configuration diagram box allows user to modify Username and Password, and then enter new username and password. After completing, press "Update" button to take effect.

- Admanéatrator	Authentication C	Configurati	on	
definition(caller) Configuration definition(Caller) definition(Caller) Configuration	Setting		Value	
· Soler Cale	Usemame	adatu	max 15	
· Farmare Lipitato	Password		max 15	
 Rabbit Dainta Ref. 	Confirm	*****		
> Port Basagement			Updata	
VLAN Setting	Note:			
 Per Pert Counter Go/S Setting 	Unername & Pansword o	an only use "	n-2", "A-Z", "0-9", "_", "4", "-", "=".	

4.1.2 System IP Configuration

This page shows system configuration including the current IP Address and Subnet Mask, Gateway, and IP Configure.

Administrator	System IP Configurat	lon
Configuration * Restance Configuration	Setting	Value
· Oyelsen Glater	IP Address	192 . [168 . [2 .]
Firmers Lindals	Subnet Bask	266 [266] [266] [268]
· RebortDeets	Gateway	102 . [168 . [2 . [254
Fort Management	IP Configure	©Static OINCP
VLAN Setting Per Port Counter		(Bpdate)

IP Address, Subnet Mask, and Gateway at system IP Configuration diagram box can be configured by user. The Switch also supports DHCP methods to get IP address from DHCP server.

4.1.3 System status

This page is used to check the status of the Switch, including the switch MAC address and software version.

MAC Address	16/8/12/8/16/28
Number of Parts	24+2
Comment	invite \$548.15
Rysten Version	28101103, VP1828D_PoEPDER108_1986.81
i tille Time Samely	Ade Town R
	(bies)

The MAC address and version of the Switch will be shown at system status diagram box. Comment field can accept "a-z", "A-Z", "0-9", "_", "+", "-", "=", excluding special character.

4.1.4 Load default setting

Clicking the "Load" button will make the switch being set to the original configuration.

Administrative Administrative Constraints	Load Default Setting
* Roman II Contension	recover switch default setting excluding the IP address. User name and Pessword
Context States Lond String Lotters Pressure Lipidate	

When Load Default is executed, the all settings will be restored to default setting. Press "Load" button at load default setting page, and then the process of the load default setting will be executed. Press "Reboot" button to take effect.



Fleare Click "Reloct" to use new setting to login

Teilou .

After completing load default procedure, IP address, user name and password will keep original setting.

4.1.5 Firmware update

After pressing "Update" button, the Switch will erase the older version flash code first. Then enter file name at specific path, and the update will be completed.

Using default IP to execute firmware update process:

(Firemen Ignore
 Antonio de la composición de la com	Planar Inpid the parameter to medical the Planar Iplane
W Refer Rate	Protocol
A CALCUMPTER .	feladize
· · · · · · · · · · · · · · · · · · ·	(1884)
1 mail	Refer the second of the second

Enter password to execute firmware update process. After pressing "Update" button, the old web code will be erased. After completing, select the image file and enter update button to take effect.

Firmer lipinto
Flower input the parametric to continue the Firmeare Update printers.
Facesard seese
BeConfirm +++++
(Bolder)
After clicking the "BRAIL" horton, 19 the firmewro update selpage in nor realizented suprestly or in shown so "Weipage out found". Firmed computer to hits:///102.158.2.1 Firmed Clicking of finite second firmewro update second to make a state to make a firmewro update second to make a state to make a state of finite second of firmewro update state in the second secon
If this webpage doesn't refresh smoothly, please connect to <u>http://192.168.2.1</u> to contin
FW
Select the image file C1Documents and Settings Administrator Desktop/FR-52028PE
Inter (192.168.2.1
DIGECT ASSA: ASSESALA
\downarrow
Uploading>>>>>>
\downarrow
OK!
Continue

4.1.6 Reboot device

This page is used to reboot device.

Press "Confirm" button to take effect for rebooting device.



4.2 POE

4.2.1 POE Status

This page is used to check POE Status, you can set Max Available Power here.

Administrator	PoE Status							
FoE Status FoE Setting	Max available Power	500 Watt Update						
Poll Power Delay	System operation status	On						
 FoE Scheduling 	Main Power consumption	0(Matt)						
* NTP Setting	Device Temperture	M Secondar						
Port Management	Device #1	36 (C)						
Vi All Setting	Device #2	38 (C)						
Day Bort Country	Device #3	39 (C)						

4.2.2 POE Setting

This page is for PoE setting.

erator	PoE	Setting	1										
Politika Politika	Acres 14	· 12	Status		Frintly	Power Duiget							
Pull Prove Dates	Plettin	* 116	8		Writical-1. High-2:Low-3)	Utatt EXE 399							
Arter Setting	Fort N	E	0		040 450 060 670 080 090	100 110 100							
lettery.					Quinto								
of Caster	Fort Status Fefreet												
effing .	Fort	Chattie	Class	Belowity.	Four Contention Hatt)	France Rodnest (Batt)							
TV .	1	Realite		3	0.05								
ang Tree		Rashle		1	0.00	70							
	1	Bushla	-	3	0.00	21							
and America	4	Bendile			0.00	20							
	-	Bashla	-		0.00	31							
r.	4	Bankl+	-		D. 00	- 91							
	7	Bashle		3	0.00	30							
		Enshie	-	3	0.00	31							
		Beable		3	0.08	- 90							
	10	Enable		3	0.00	30							
	11	Eash1e		3	D. 06	20							
	12	Enable		3	0.00	20							
	13	finable	-	3	0.00	20							
	14	Bashis		3	0.00	30							
	15	Bash1e		3	0.00	30							
	16	Bueble-		3	0.00	30							
	17.	finable	-	3	0.00	30							
	10	Enable		3	0.00	30							
	19	Enable		3	0.00	30							
	29	Enable		3	0.00	30							
	- 21	final-le		3	0.00	30							
	22	Enable		3	0.00	30							
	23	Enable		3	0.00	20							
	24	Bashle		3	0.00	30							

Status: Enable or disable the specified function.

Priority: Setting the priority of POE.

4.2.3 PoE Power Delay

This page is for setting PoE Power Delay.

PoE	Power Delay	lj		
	De	Car Node	Sel	ey Tiae (5°200
Punctio				second
Port B	a (1)	10 120 130 940 060 10 140 150 160 17	080 190 110 120 110 120 120 140	
	101 255		date	
1 march	1.			
Fiet	Pelay Book	Delay Time Introni	B	
1.4	Distant			
1	Disetle			
	Disette	///		
1	Disette	///		
	Disekle	1.0		
e Agers		((47)		
	Dissle			
	Dissle	g.		
	Dissble			
40	Disskle			
	Dissble	<u>a</u>		
	Dissble	0		
12	Dissile	9		
-19	Dissile			
-15	Dissble	9		
- 16	preste	9		
- 17	Dissble	9		
10	Diasble	.0		
.19	Disable			
- 20	Disable			
11	Disable	9		
2	Disable			
	Disable			
	Dieable	0	11.2	

4.2.4 PoE Scheduling

This page is for setting PoE Scheduling, it starts POE function at a specified time.

· Por futton	Sched	ule on Po	art	01 -									
· PEE Priver Dater	Sche	dule Mod	e	Disable w									
 Full dubandos 	Sche	dule AM/S	PM	A.R	1								
 NTP Saterg 	C Selec	Select all											
Port Management	Hour	Non-	Tus.	Wed.	Thu.	Fri.	Set.	Sun					
AAX Setting	00 🗖	123	12	8	13	83	Ē	8					
her Port Counter	01	E				1	R	2					
and Setting	02 🗆		田	9	8	Ø	2	E					
lecurity	03 🗖	团	题	E	R	12		E					
planning Tree	04 🔲	E		Ð	1	包	2						
TATINITY	05 []	- E	田	8	E	即	图	E					
HCP Relay Acent	06 🖂	E	题	E	部	E	e	1					
ackum Recovery	07 📋	田	团	回	E	2	1	12					
band states	08 🖂	E		2	E		图	.2					
MAD Satisman	09 🖸	E	巴	E	B	8	2	E					
	10 🖂	12	(四) (四)	2	E	2	W	9					
ogott	11 🗆	E	E	E	8	10	52	.9					

4.2.5 NTP Setting

This page is for NTP setting.

Administrator	NTP Setting	NTP Setting							
· FoE Status	The second second	0.00.5							
PoE Setting	System line	0:20:8							
PoE Power Delay	NTD Primary	#1 210.0.235.14							
PoE Scheduling	WIF Server	#2 59.124.196.85							
 <u>HTP:Setting</u> 	Time Zone	UTC 0:00 🚽							
Port Management	1	Update							
VLAN Setting		statutioned							

NTP Server: This is the IP address of the NTP information will be taken from. **Time Zone:** Select your local time zone from this pull down list.

4.3 Port Management

4.3.1 Port configuration

This page allows the user to configure operating mode of the physical port.

1 Addressed	Port	Port Configuration													
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+ furthering			12100		1200		18 · · ·			1000					
A Manhairton	Ballant Pert S														
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(State Revenue)	1		-		- 1	18		100	201		- 18	- 25			
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> Locoet	•					· • •	370	 Y1 	-TF-,	- 24	78				
						- 44	370	 Y1 	-I-·.	- 24	78				
	1					·••	370	 1 ×1 	-I-·.	- 24	24				
	•					64 °	370	 1 ×1 	-1-°.	- 24	28				
	1						370	- ¥1.	-I-·.	- 24	29				
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	1					·**	370	- X1	-i	- 24	78				
	- I					.4	370	- va	-1- ⁻ .	- 24	28				
			101	-1.	13	4	370	- ×1	-1	- 24	78	AF			
	- N					0¥	370	- X1	-I-·.	- 24	78				
							370	- X1	-1-°.	- 24	28				
							370	- V1	-1	- 24	- 11				

Tx/Rx Ability: Allow choosing all or one port of Switch for further management, the available options is ALL & 01 to 16/24.

Auto-Negotiation: Enable and Disable. Being set as Auto, the speed and duplex mode are negotiated automatically. When you set it as Disable, you have to set the speed and duplex mode manually.

Speed: It is available for selecting hen the Negotiation column is set as Force. When the Negotiation column is set as Auto, this column is read-only.

Duplex: It is available for selecting when the Negotiation column is set as Force. When the Negotiation column is set as Auto, this column is read-only.

Pause: Flow Control for Full Duplex. When Flow Control is enabled, the switch can synchronize the speed with its peer to avoid the packet loss caused by congestion.

Backpressure: Flow Control for Half Duplex. A condition wherein a switch causes a transmitting device to hold off on sending data packets until the switch bottleneck has been eliminated.

Addr.Learning: Address learning is a service that characterizes a learning bridge, in which the source MAC address of each received packet is stored so that future packets destined for that address can be forwarded only to the bridge interface on which that address is located.

After completing the settings, press "Update" button to take effect. The setting will be reflected at current status window.

4.3.2 Port mirroring

The port mirroring function is accomplished by setting the following items.

(a) **Destination port:** Theoretically it's possible to set more than one destination port in a network. Actually the port mirroring function will lower the network throughput, and therefore it's recommended to set "only one" destination port in a network.

(b) Monitored packets: (1)Disable: means this function is disabled. (2)RX: means copy the incoming packets of the selected source port to the selected destination port. (3)TX: means copy the outgoing packets of the selected source port to the selected destination port. (4)Tx & Rx: means the combination of Tx and Rx.

(c) Source port: The traffic source that will be copied to the destination port.

Constanting Constanti	Port Mirroria	Part Mirroring													
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	and .	14	10	10	1	H	44. 13	12	=	큅.	-	12	-	10	
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	Pet .	18.2	10	100	ar.	12	12	10	#	퀑	1	18	20	10	
- An Annal Annal A	BALL IN BALL IN	ditte Barris	4												

(24-port version view)

4.3.3 Bandwidth Control

This page allows the setting of the bandwidth for each port. The TX rate and Rx rate can be filled with the number ranging 1 to 255. This number will be multiplied by the selected bandwidth resolution and the result is the real bandwidth.

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4.3.4 Broadcast Storm Control

The broadcast storm control is used to block the excessive broadcast packets, the number ranging from 1 to 63.

	Broadcast 9	Broadcaat Storm Control												
- And Names and - And Conference - And Confere	These at 1.00													
	12*	1 D	Ti-	1	4	1	10	1	6	8	2	11	11	1
		10	11	推	2	10	19	10	21	潜台	환	1	20	10
		(369)												
	This value includes speed and following Network This effect in specified number	the horster of the followings	hourtford hourt for to	pachal viti ng Incedia	ct to phose	une de b	eech port in	the lose	percent to	ne and is th to age the t	entiti in a tr	te att n p	100 us fier	tooMaps I Ban De

4-port version view)

For example: The broadcast storm of the port1~8 are enabled and threshold is set to 10. The broadcast packets will be dropped when broadcast packets are more than threshold setting (packet length is 64 bytes).

Broadcast Storm Control



4-port version view)

4.4 VLAN Setting

4.4.1 VLAN mode

The Switch supports two VLAN modes, tag based and port based. When the port based VLAN is selected, the tag setting will be useless. When the tag based VLAN is selected, the user can define the handling method of a VLAN tag to the specified port, including "add a

VLAN tag", " remove a VLAN tag" or "don't care" about VLAN tag.

T and T fail the spectrum	VLAN Mo	de	
	VLAN Mode	Part David VLAR	j
· · · · · · · · · · · · · · · · · · ·			

When click the "Change VLAN mode" button, the mode will change to Tag Base VLAN.

1 Address total	VLAN N	lode							
Training	VLAN Mode	The Parri VA	Chape S.M.						
 V. State Research Mark In Chamber 		Fort 05 CA4Est C dat't care C Recentlag	Part 63 Challer Odor's card Officientia	Part 65 Obsillar Odor's card Officiality	Fuer de CAREng Oden't care OfenereTig	Part (E OAMErc OAMErc care OfficientIat	Part 16 CASEIne Crass' + costs ClinectelTee	Pare ST CAMPag CAMP+ pare ClimaceTeg	Page 08 C AARTeg C AARTeg C AARTeg C Asserve Teg
		Furt 00 O Addition O don't care O financeTop	Part 19 CASEDa Orden's care Officients	Part II CANTA CANTA Charter	Port 12 OASE34 Tides't care OfficereTas	Part 10 OkdEtal 10 dal"t opris 10 fearretta	Fort 18 CARDial Ridge's carr CitagersTag	Fert 18 CARDel Rider's corr Citemetetas	Fort 10 OABEas El day? + cape C ReserveTas
1 COLT Hang Lager I das nagificantes I discolationes	Tag Mode	Fort 17 Cladition Class's cure ClassicsTay	Party 33 Children O dos Y card Characterities	Fort 38 Children O dan't carri Chanceller	Fait 30 OAAEisa Oder't care ChasesTag	Dart 25 Cabiling O dal't care Chapesita	Pare 35 Coldfan Odan's core Officientia	Face 35 CAMPas Oday's core Officereting	Part 24 CháiChái Cháicí 1 cont ChaorraTha
Finant		Port 28 Califie Califie Care Cline-the	Fart 28 Childrey Odad's care Obscorifiet						
			1000-00 (100-0)		13	allere)			
	Bata: 11 1 part.	he link parts blo case, 11	er in a arteer is strongly re-	interface ca	rd. it probabil arteach adailed	y compaty years algoring to year	nize the VLAN	tag. ag of the corr	+-positing

The egress packets of the output port will be added tag if add tag option is selected. The egress packets of the output will be stripped tag if remove tag option is selected. Don't care means the egress packets of the output port only forward to destination without adding or removing tag.

4.4.2 VLAN Member Setting

This page is used to set the VLAN ID. The VLAN ID is valid only when the tag based VLAN is enabled. In port based VLAN mode, the VLAN ID is useless.

Port based VLAN

Port1~3 is set to same VLAN group and port4~8 is set to another VLAN group.

	VLAY	i Merr	ber S	etting	(Por	t Ex	eed)	<u> </u>																			_
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		Dere	net .		18		00	T	0Φ.	1	6.1		1		T	ηŧ.	T	18			-10	1	-11	Т	口		121
			út		- 13		11					18		-85		10		8		. 10	ť.				D		
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1	Pe		1	3	4	E	1	1	8	+	1 0	1	1	1	1 1 4 4	1	1 4	-	1.11	1 +	8	1 +	1		-	1	1.4
7	R	-	1	3	•	E	•	1	8	+	10	1 1 -	1 1 1 	1.1.		1 1 +	19.4	-	1.8	1 + +	8.0	1 +	1		-	-	2.8 4 4
1	E - 1		1 + +	3	4 	-	•	1	ł + +	\$ 	10-	1 1 	1	1.1.		1 E +	19.4.4		1.11	1 + + + + + + + + + + + + + + + + + + +	-	R 1 + +	1		1 4 -		1 1 1 1 1 1
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			2 + + + +	3				1 - - -				1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 + - + + +				1 + + + + + + + + + + + + + + + + + + +		H + + + + +		MH 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

4-port version view)

Tag based VLAN

The following figure shows: 1, 2, 3, 4, 5, 6, 7 port in the same VLAN group. The 2 port tag VID number is 123.

	VLAN Hember Setting (Tag Based)													
The Summer	922: (0.'amet (1947)	1	(10) <u>* (1000</u>) (1000)											
I wanted	Add. Roton a VII, select the ULM memory for Data Delevin a VII to the table and rise pro- Taminin-Budley via coloring VII entry. select	Add. Rever a TTL, select the TLAS memory Eq. this entry and then present this bother to add a VLAS entry to the Adda. Did() Dispart a TTL has in table and then present MLD bettern to remove a TTL entry from the table. EquinteReality the selection TTL entry, malery TTL and then present the herman.												
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	adart .			-88	8		100		:81	10	0			
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	adert	Jalert					12	Ð	21	13	0			
	Rall Badwo Fart	28	38.	38	3	181	. 20	22	28					
1 April 2 Survey	ecter 7		0	63	C1.	10	10	17	0	15				
1 Manufacture	RAR Statue Fort	TLA Sader Fort					-	- 1	-	1	1	1		
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	RD Dealer part	- 188	10		11	.44	- 14	34		10.1	36			
	select	6	.0		CT	13	01	21		15	12			
	AD Doorse part	10	10	1.11	10	130	14			-	- 24			
	milant	10	10	1.1	0	.6	0	.0		0	12			
	All Sector part	18	38.	-		-	-			-	-			
	pelant	100	.0.		*	1.0	-	-		÷2	-	(2		

4-port version view)

4.4.3 Multi-to-1 Setting

This setting is exclusive to VLAN setting on "VLAN member setting". When VLAN member setting is updated, multi-to-1 setting will be void and vice versa. The "Disable Port" means the port is excluded in this setting.



4-port version view)

Note: If the VLAN mode changes from port base to tag base, the setting of the port base will be cleared. Similarly, if the VLAN mode changes from tag base to port base, the setting of the tag base will be cleared.

l	WARNING:
	Current Port-base VLAN Setting will be reset to default setting, if yes dick on "Continue" button to change to 1 ag-base VLAN mode. Cherwise, dick on "Seco" button to cancel.

In tag base mode, adding or removing tag doesn't affect the source port connected with the web.

4.5 Per Port Counter

This page provides port counter for each port. There are 4 groups of statistics in total.

Management (A CONTRACTOR OF A CONTRACTOR OF A	1000
A Delter	George	Buit Selection: Towers Pader & Sector Pader -	Spind + /
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	19	P	
	17	1	.(8)
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			1000

4-port version view)

4.6 QoS Setting

4.6.1 Priority mode

This page allows the user to set the scheduling mode for the TX packets priority. When the queue weight is set to "0", it will be treated as "8". The "low weight" and "high weight" means the ratio of the packet in the transmit queue. For example, If "low weight" and "high weight" are set to "3" and "5", the ratio of the transmit packet for the low priority to high priority is 3/5.

1 March Lating	Print line	1
- Galling + Carling	Made Children Line Children Line Children Line	
a state of the second	(1999)	
=	Number West the quoted energits is surt to 'T' it will be thanked as 'T' The 'tree energit' and 'Not' energit' means the table of the quoted in the transit transmit. For exemption. The 'tree energit' and 'Not' energit' answers the table of the quoted in the transit packet for the true priority to traph priority in 3/5.	

4.6.2 Port, 802.1p, IP/DS based

There are three COS types for this setting. The user can select more than one item for each port.

A did having	P-Exelsing-Prom							
ter Parcineter	Port No. Made	Put	VLAN Teg	#*-D8	Pottic Male	Part Rece	ULAN Tag	100
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* TUPUUTTurismut	1	(C	P	12	11	11	- 11	11
	1	0	6		17	0	.0	0
	1.4	0	0	0	99		12	Π.
CP from April	20			10	- 9			
and the second se	1	a.	0	0	21	0	0	
	14	<u>a</u>	<u> </u>		21	11	11	
		0	(T)		22	11		Π.
-	10	1	0	100	33	10	. 13	0.
			(C)	0	28	13	13	E1 .
	Q	G	G	5	17	0	10	0
	19	12	<u>1</u>		in	8	. 8	0
	1 C C C C			Libre	-	11		

As long as any of three CoS schemes(802.1p, IP TOS/DS or Port Base) is mapped to "high", the data packet will be treated as the high priority.

4.6.3 TCP/UDP Port Based

This page allows the network administrator to assign the specific application to a priotity queue. When the TCP/UDP port QoS function "override" item is selected, the Port_based, Tag_based, IP TOS_based, CoS listed above will be ignored.

1 Address (10)	Class of Service Configuration		
A Anno Managements	Polant	Categor.	
Participant -	FTP(20,21)	2121	
- test hering	8/8+4221	P194 at	
a Park was	10130010235	\$194 K	
Constant of the local division of the local	BMTP(25)	P194 K	
T Real Property lies and the second se	DAtistim	9.14-1 #	
Taxaning Tree	TETP(68)	2124	
distant and a second	HELEN BORD	TITE &	
Backardinanan	POPULTIS:	8-1-9-4 at	
1 Minuteson	MENTACI TW-	P-1-P-0 at	
a state participa	\$9(77)1215	3-1-P #	
* Lipport	NetBOD(137-139)	print at	
	Ing4/P(141.200)	2000	
	300AP(107,1621	21712	
	HTTPS://	and the second	
	MGN2:10031	21000	1.1
	KHC_42H(3308)	3-14-1 H	
	4244000.00000	2-3-8-a at	

4.7 Security

4.7.1 MAC Address Binding

This is a port binding feature. This function provides a method for the administrator to specify the relationship between the physical port and the MAC address. By specifying the MAC address to each port, the switch can only forward the packets with source specified in

1000		And And And							
Plot tel:		MAC ADDIVIT							
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. Bet Bu	Biadias Distan	Fut Sc	Binding Train						
	Basice	14	Tintle						
1	Bask(s	19	Tiedle						
2.29	Master :	18.	hiskle						
	Distin	10	Diskle						
	Basic	10.	Restie						
	Baste	39	listie						
1.2.2.2.4									
1	Hashle	36	Energy						
	Hamile Namle	34	Disekir						
*	Hadda Naddy Haddy	8 8 8	Dissile Dissile Dissile						
	Maskie Maskie Naskie Maskie	2 2 2 2 2 2	Diskie Diskie Diskie Diskie						
* * * *	Haskie Raskie Raskie Raskie Raskie	2 2 2 2 2 3 3	Bunkle Blashie Blashie Blashie Blashie						
* * * 10 11	Hadde Redde Redde Redde Redde Redde	28 29 29 29 29 29 29	Timble Disple Disple Disple Disple Disple Timble						

the table. Each port can correspond to up to 3 MAC addresses.

4.7.2 TCP/UDP Filter

By selecting the TCP/UDP port, the user can optionally block some specific applications. There are two kinds of protocol lists. The positive list makes the switch to forward the selected protocol and drop other protocols. The negative list makes the switch drop the selected protocol and forward other protocol. The protocol is checked at the selected secure WAN port.

The second se	Participants	And a local diversion of the											
VUI DI LE	TUTTO CADA												
1 del taleg - dennis 2 del constituent 2 del constituent 2 des con	Performing team for a second point with entered periods will be asked formation in theorem with our synth. Will part as the forme does being the second period will be formation. "period" when the selected periods will be formation will be formation. "period" when the selected periods will be formation will be formation.												
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	Press	CHARLES .	20091000	Destin Un'sal	(2064Fix46.0001	COMPOSE HIT	DIFFECTACI	[]00.00119-000	Clavit, metici, and				
		Clines, Julian, a	Dist. Julian A	Ches.print,r	(Distantion,8)								
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-		Chains	(Diversit	CPort11	(Denis)	Church	Elfai+18	[]Partit	Distant				
		Cherter	Divit	CPw10	12Peril®	Cherti .	Diverse.	[]Futth	15Pya/104				
		Cheven	Dhesit										
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	Beineller übernante	in of local 400 p	all all mean hadres.										
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	and the second second		1	1									
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		1.1.1	-	Post .									

The Switch supports two methods to filter TCP/UDP protocol. Allow means that when the port number of the selected port matches the port number of the filter setting, the packets will be forwarded to destination port. Deny means that when the port number of the selected port doesn't match port number of the filter setting, the packets will be forwarded to destination port.

4.8 Spanning Tree

4.8.1 STP Bridge Settings

STP (Spanning Tree Protocol) is the acronym for spanning tree protocol, the protocol can be applied to loop network, the algorithm by a certain path redundancy, while loop network loop-free tree pruning into the network in order to avoid reporting Man in the loop network hyperplasia and infinite loop. STP protocol will continue to 50s, this is the PC is turned on and some 50s before they can access, for data transfer. RSTP STP improved algorithm, within the agreement time to 1s.

1 Additional	STP Bridge	Setting	le.									
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4.8.2 STP Port Settings

This feature is available to you to switch the priority of each port and RPC set, usually set according to the following priority rules, and RPC can remain the default.

RPC: Root Path Cost. The value range is 0 ~ 20000000, used to determine the port to the root path cost, often with the speed, so when set to Auto, its value is inversely proportional to speed.

Election root port, in accordance with the following principles. COST - Port ID, compare the COST value, that is, the cost of the port to the root bridge. COST lower the value the more the priority.

[COST VALUE]

Bandwidth	COST
10Gps	2
1Gps	4
100M	19
10M	100

STP 6	ort Settings					
	STP Part Setting	-				
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-			ITP Po	rt Status		
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15	Auto10	0400		Distile	- +-	
11		0a80		fissile		1 -

4.8.3 Loopback Detection

The features available to you under the loop test set, the "Loopback Detect Function", set to "Enable". When you produce the lower loop switch when the switch will automatically block out the port connecting to ensure other ports work.

When you set the "Auto Wake Up" and "Wake-Up Time Interval" option, and the network loop appears when the intervals, the switch port will wake up trying to loop until the fault discharged.

Reset All Ports: This button provides a key to force you to reset the port function. **Status:** Display the current status of all ports.

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4-port version view)

4.9 Trunking

Port aggregation is to bring together multiple ports together to form a group to achieve entry / exit load in the aggregation group, all members of the port-sharing, while also providing a higher connection reliability.

Note: According to LACP specifications, the same group for each Member port Trunk connection speed and Duplex must be consistent, otherwise not work properly.

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Link Augente	tion Algorithm		An' moddler ar					
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(Balance)								
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System Priority: Set the Switch System Priority, a value of 1 to 65535.

Link Aggregation Algorithm: MAC Src on behalf of Source MAC address. MAC Dst on behalf of Destination MAC address.

(2

4.10 DHCP Relay Agent

4.10.1 DHCP Relay Agent

DHCP provides a transparent transmission to DHCP broadcast packet. It can transmitted broadcast packet in one DHCP client(or server) to another segments of the DHCP server(or client) transparently. Client in subnet can communicate with other subnet DHCP server through DHCP Relay.

1 Appendix	DHCP Relay Agent	
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1.100.000		
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4.10.2 Relay Server

Set the DHCP server IP.

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A DOOR SHARE				
· Loss low				

4.10.3 VLAN MAP Relay Agent

Enter the VLAN ID value within 1-4094.

 Administrative Text Boundary South Sectors 	DHCP Relay Agent									
	10.41 20	()	Sus James 10	(@						
	MAP List	MAP List								
	YLAR 10		Recent IP	artise -						

4.11 Backup/Recovery

This function provides the user with a method to backup/recovery the switch configuration. The user can save configuration file to specified path. If the user wants to recover the original configuration, which is saved at the specified path, entering the password and then pressing the "Update" button could recover the original configuration.

Administration of the local division of the	Configuration Backup/Recovery	
Part Streeptont	Backup(SwitchPC)	
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Card Suffrage	1	
Security		
Sponsing Tree	Recovery(PCSwitch)	
1957 Doling Agent	Pasaword	
(Barristeren)	Select the image file	(Boste
Logost	(1/p/mic)	

The contents of the EEPROM can be saved to specific path, and the default name is down.bin.

Configuration Backup/Recovery

Backup(Switch→PC)
Preserved a 'Diver bac' to over bac FTPRCM contents 📄 www.co
Recovery(PC - Switch)

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Updeto

Password :

4.12 Miscellaneous

Miscellaneous is used to configure output queue aging time, VLAN stride, IGMP snooping, and VLAN uplink function setting.

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	a content	Dutput Queue Aging Time											
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							(Millio)						

Output Queue Aging Time

This function is enabled for avoiding poor utilization of switch while pause packets is received, The normal packets from transmitted port (port1) can be forwarded to other port if port2 continues to assert pause frame.

VLAN Striding

By selecting this function, switch will forward unicast packets to destination port, no matter whether destination port is in the same VLAN.

IGMP Snooping V1 & V2

This function is enabled for supporting IGMPv1, IPMPv2 protocol to create IGMP group.

Uplink port

This function allows different VLAN use their individual uplink port to forward packets. In a normal application, "only one" uplink port can be selected in a switch.

4.13 SNMP Settings

SNMP(Simple Network Management Protocol), used to manage the communication line. You can Enable or Disable SNMP Settings here.

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	BABIP Trap Settings							
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	The Serve Date	-						

4.14 Logout

Press "Logout" button to logout web page.



Appendix: Technical Specifications

Model		DN-95312	DN-95313				
Number of Ports		16 x 10/100Mbps Auto-Negotiation ports	24 x 10/100Mbps Auto-Negotiation ports,2 x 1000Mbps Combo				
	10/100M	Link/	/Act				
LED Indicators	POE	Po	E				
	Power	Pow	ver				
		Power-: pin 4 & pin 5	Power+: pin 4 & pin 5				
POE POwer		Power+: pin 7 & pin 8	Power -: pin 7 & pin 8				
Transfer Meth	lod	Store-and	-Forward				
Switching Cap	bacity	3.2G	8.8G				
MAC Address	Learning	Automatically learning, automatically Update 4K					
Standards		IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3af, IEEE802.3at					
		10BASE-T: UTP category 5 cable (maximum 100m)					
		100BASE-T: UTP category 5	100BASE-T: UTP category 5,5e cable (maximum 100m)				
Network Medi	a (RJ-45)		1000Base-T: UTP category 5e, 6 cable (maximum 100m)				
Dimensions (L	_ × W × H)	440*208*44 mm					
		Operating Tempe	erature: 0°C~40°C				
Environmont		Operating Humidity: 10%	~90% non-condensing				
Environment		Storage Tempera	ture: -10°C~70°C				
		Storage humidity: 5%~	90% non-condensing				
AC Input		AC: 100V~24	0V 50/60HZ				
Power co	nsumption	260 W	330 W				