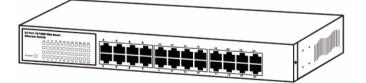


SW-0024F2

User & Manual

24 Port Nway Fast Ethernet Switch

Quick Installation Guide



SW-0024F2_Manual_V1

FCC Warning

This device has been tested and found to comply with limits for a Class A digital device, pursuant to Part 2 and 15 of FCC Rules, These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

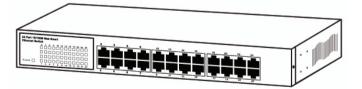
CE Warning

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Introduction

This switch provides 16 10/100M ports. It was designed for easy installation and high performance in an environment where traffic is on the network and the number of users increases continuously.

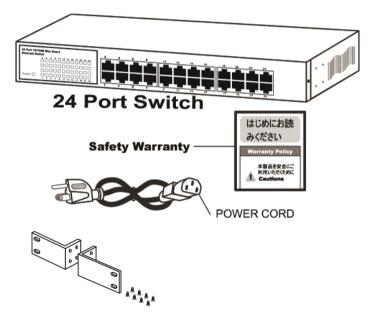
The compact rigid desktop size was specifically designed for small to medium workgroups. It can be installed where space is limited; moreover, it provides smooth network migration and easy upgrade to network capacity.



Package Contents

Before you start to install this switch, please verify your package that contains the following items:

- One Fast Ethernet Switch
- One Power Cord
- One Safety Warranty
- One pair Rack-mount kit + 8 Screws



Note: If any of these items is found missing or damaged, please contact your local supplier for replacement.

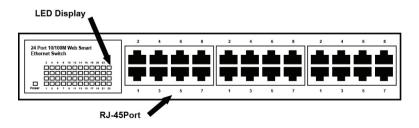
Key Features

- 24 Port 10/100M Nway (Auto-negotiation) Switch
- 11" Desktop size with metal case
- Can be installed in a 19" cabinet by rack-mount kits
- Auto-learn of networking configurations
- Auto-detect full/half-duplex modes for any port
- Dedicated full-duplex 200Mbps bandwidth
- Store-and-Forward switching methods
- IEEE 802.3x flow control for full-duplex and back-pressure flow control for half-duplex
- Non-blocking & Non-head-of-line blocking full wire speed forwarding
- Auto-MDI/MDI-X function for any port
- Smart plug & play

Front Panel (LEDs)

LED Indicators of 24 Port 10/100M Switch

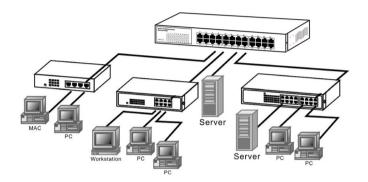
LED	Status	Description
Power	On	Power is on.
	Off	Power is off.
LINK/ACT	On	Port is for connection.
	Off	No connection.
	Flashing	Data is transmitting or
	_	receiving
10/100M	On	Port is on 100M status
	Off	Port is on 10M status.



Connections

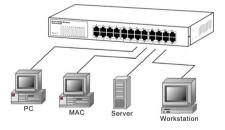
Switch/Hub to this 24 Port Fast Ethernet Switch

This switch provides automatic crossover detection functionality for any port. It is simple and friendly to up-link to another switch without crossover cable.



PC/Other devices to this 24 Port Fast Ethernet Switch

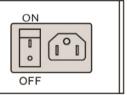
Via a twisted pair cable straight through, this switch can be connected to PCs, servers and other network devices.



Rear Panel (Power)

AC input

AC input (100~240V/AC, 50~60Hz) UL Safety



Technical Specifications

Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX
	IEEE 802.3x Flow control
	Number of Ports: 24
Features	MAC Address: 8K
i cutures	Buffer Memory: 1.625Mb
	Method: Store and Forward
Filtering/	100Mbps port – 148,809pps
Forwarding Rates	10Mbps – 14,880pps
Transmission	10BaseT Cat. 3, 4, 5 UTP/STP
Media	100BaseTX Cat. 5 UTP/STP
LED la dis stans	Per Port: LINK/ACT, 10/100M
LED Indicators	Per Unit: Power
Power	
Requirement	100~240V/AC, 50~60Hz
Power	
Consumption	10 Watts (Max)
	44 x 266 x 160 mm
Dimensions	(HxWxD)
Net Weight	1.40 kg
Operating	Ŭ
Temperature	0 to 55℃
Storage	
Temperature	-20 to 90
Humidity	10 to 90% RH (non-condensing)
,	(6)
Certifications	FCC Class A, CE

24 Port Nway Fast Ethernet Web Smart Switch

User's Manual

User Log In

This part instructs user how to set up and manage the switch through the web user interface. Please follow the description to understand the procedure.

At the first, open the web browser, and go to 192.168.2.1 site then the user will see the login screen. Key in the password to pass the authentication then clicks the OK. The log in process is completed and comes out the sign "Password successfully entered".

Log in

ID: admin Password: admin

JSER	LOG IN
Site:	192.168.2.1
ID:	admin
Password:	•••••
	ок

Note: It will show error message if you key in wrong user name or password.



Main Page

- Administrator

Authentication Configuration System IP Configuration System Status Load Default Setting to EEPROM Firmware Update Reboot Device

- Port Management

Port Configuration Port Mirroring Bandwidth Control Broadcast Storm Control

- VLAN Setting

VLAN Mode VLAN Member Setting (Port Based) VLAN Member Setting (Tag Based) Multi to 1 setting

- Per Port Counter

Counter Category

- QoS Setting

Proirity Mode Class of Service

- Security

MAC Address Binding MAC Address Scan (Scan MAC) TCP/UDP Filter Configuration IP Address Configuration

- Spanning Tree

STP Bridge Settings STP Port Settings Lookback Detection

- Trunking

Link Aggregation Settings

- Backup/Recovery

- Miscellaneous

Miscellaneous Settings IGMP Static Router Setting

- SNMP Settings
- Save Settings
- Logout

2 4 6 8 10 12 14 16 18 20 22 24 24 Port 10/100Mpbs Modular Fast Ethernet Switch

Advanced Features

Bandwidth control
 Port based & 802.1Q based VLAN
 Statistics Counter
 Firewall
 VLAN Uplink

> Administrator Port Management
 VLAN Setting > Per Port Counter QoS Setting Security
 Spanning Tree Spanning Tree
 Trunking
 Backup/Recovery
 Miscellaneous SNMP Settings Save Settings Logout

10/100Mbps Ethernet Switch

- Basic Features
 - Embedded HTTP web Management
 Backup/Recovery Configuration
 TFTP Software upgradeable
 Secure Management
 Password security

Administrator: Authentication Configuration

This page shows authentication configuration information. User can set new username and Password in this page.

24-Port 10/1	00Mpbs Modular	Fast Ethernet		4 16 18 20 22 24 3 15 17 19 21 23		
Administrator Authentication Configuration	Authenticatio	on Configur	ration			
 System IP 	Setting		Value]		
Configuration System Status	Username	admin	max:15]		
Load default setting	Password	••••	max:15	1		
Firmware Update	Confirm	•••••				
Reboot Device		Update)	1		
Port Management			,	1		
VLAN Setting Per Port Counter	Note:					
 Per Port Counter QoS Setting 	Username & Password o	an only use "a-z","A	-Z","0-9"," ","+","-","=".			
 Security 						
Spanning Tree						
> Trunking						
Backup/Recovery						
> Miscellaneous						
SNMP Settings						
Save Settings						
> Logout						

Administrator: System IP Configuration

This page shows system configuration including the the current IP address and sub-net mask and gateway.

Port 10/100Mpbs Modular F	ast Ether	net Swi	tch 📋	4 6 8 1 3 5 7 9		.8 20 22 24	}	
System IP Cor	nfigurati	on						
Setting			Value		1			
IP Address	192	. 168	. 2	. 1	1			
setting Subnet Mask	255	. 255	. 255	. 0	1			
date Gateway	192	168	. 2	. 254	1			
a IP Configure		Stat	ic ODH		 1			
	Uş	idate			 1			
r								
ry								

User can configure the IP settings, Subnet Mask, Gateway as below:

- IP address: Manually assign the IP address that the network is using. The default IP is 192.168.2.1
- Subnet Mask: Assign the subnet mask to the IP address.
- Gateway: Assign the network gateway for industrial switch. The default gateway is 192.168.2.254

If you change the IP address of this switch and then press **Update**. It will show "**update successfully**" then press **Reboot** button. It will enter user login screen automatically

Administrator: System Status

This page displays the information about the switch of MAC address, how many ports it has, system version and. Besides, users can also fill in up to 15 characters in the Comment, Contact and Location field for note.

24-Port 10/10	0Mpbs Modular Fast E	2 4 6 8 10 12 14 16 18 20 22 24 Chernet Switch 1 3 5 7 9 11 13 15 17 19 21 23
Authentication	System Status	
Trunking	MAC Address Number of Parts Comment System Version © Idle Time Security Vote: Cemmest name can only use "a-	00:013F013F0 34 Sweed: 1110111 1de Tmre/F (1-30 Minutes) © Auto Logout(Defnat). () Stack to the last display. Update

- MAC Address: Displays the unique hardware address assigned by manufacturer (default).
 Number of Ports: Displays number of ports in the switch.
 Comment: Users can fill in up to 15 characters in this field.
 System Version: Displays the switch's firmware version.
 Idle Time Security: User can set the time security. When user leave the computer for a moment, the software will auto logout or back to the last display.
- > And then click **Update** button.

Administrator: Load Default Setting to EEPROM

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

24-Port 10/1	00Mpbs Modular Fast Ethernet Switch
Administrator Authentication Configuration System IP Configuration	Load Default Setting to EEPROM recover switch default setting excluding the IP Address, User Name and Password
System Status Load default setting Firmware Update Reboot Device	[Loss]
 Port Management VLAN Setting Per Port Counter OoS Setting 	
 Security Spanning Tree Trunking 	
 Backup/Recovery Miscellaneous SNMP Settings 	
 Save Settings Logout 	

Note: It exclude to change user name, password and IP configuration. If you want to restore default setting including IP and user name password, then you can press the reset button for hardware base reset.

More detail information about Load Default Setting - Hardware Base is described as following.

The purpose of this function is to provide a method for the network administrator to restore all configurations to the default value.

- (1) To activate this function, the user should follow the following procedures. Press the "Load default" button for 3 seconds until you see the LED blinking.
- (2) When LED starts blinking, it means the CPU is executing the "load default" procedure. You can release the button now. After completing this procedure, all the factory default value will be restored. It includes the IP address, the user name, the password and all switch configurations.

Administrator: Firmware Update

Before the firmware update procedure is executed, you should enter the password twice and then press **Update** button. The smart switch will erase the flash memory. There is a self-protection mechanism in the Boot Loader, so the Boot Loader will keep intact. Even though the power is turned off or the cable link fails during the firmware update procedure, the Boot loader will restore the code to firmware update page.

24-Port 10/1	2 4 6 8 10 12 14 16 18 20 22 24 00Mpbs Modular Fast Ethernet Switch 1 3 5 7 9 11 13 15 17 19 21 23	
* Administrator		
Authentication	Firmware Update	
Configuration	Notice Please input the password to continue the Firmware Update	
 System IP Configuration 	process.	
 System Status 	Password	
 Load default setting 	RecConfirm	
 Firmware Update 	Update	
Reboot Device		
Port Management		
VLAN Setting		
Per Port Counter		
> QoS Setting		
Security		
Spanning Tree		
Trunking		
Backup/Recovery		
Miscellaneous		
SNMP Settings		
Save Settings		
> Logout		

After pressing Update button, the old web code will be erased. Then you can select the image file and press "update" button to update the firmware you need.



Administrator: Reboot Device

Click Confirm button to reboot the device.

24-Port 10/1	2 4 6 8 101214 16 18 20 22 24 00Mpbs Modular Fast Ethernet Switch 1 3 5 7 9 11 13 15 17 19 21 23
* Administrator	
 Authentication Configuration 	Reset Device: Click "Confirm" to Reset the Device
 System IP Configuration 	Confirm
 System Status 	
Load default setting	
Firmware Update	
Reboot Device	
Port Management	
VLAN Setting	
Per Port Counter	
QoS Setting	
Security	
Spanning Tree	
Trunking	
Backup/Recovery	
Miscellaneous	
SNMP Settings	
Save Settings	
> Logout	
-	

Note: The reboot is for software base instead of hardware base.

Port Management: Port Configuration

In Port Configuration, you can set and view the operation mode for each port.

Port	Conf	igurat	ion										
Fun	ction	Enable	A	ato-Nego	Spee	ıd	Duplex	nmetric Paure	Asymmetr	ric Backpress	Addr. Learnir	· E	
	ľ		v .			× .	🖌	~		v	v	~	
	lect t No.						05 06 07						
						(Update						
		C	arrent Sta	Rx	Tx					Setting Status Symmetric	1	1	Addr
Port	Link	Speed	Duplex	Pause	Tx Paure	Enable	Auto-Neg	Speed	Duplex	Pause	Asymmetric Pause	Backpressure	Addr.
1		10034	Full	On	On	Enable	Asto	10054	Full	On	On	On	On
2						Enable	Auto	10004	Full	On	On	On	On
3						Enable	Auto	10034	Full	On	On	On	On
4						Enable	Asto	10004	Full	On	On	On	On
5						Enable	Auto	10004	Full	On	On	On	On
6						Enable	Auto	10004	Full	On	On	On	On
7						Enable	Auto	10004	Full	On	On	On	On
8	<u> </u>			<u></u>		Enable	Asto	10004	Full	On	On	On	On
9	<u> </u>					Enable	Asto	10054	Full	On	On	On	On
10						Enable	Auto	10054	Full	On	On	On	On
11	<u> </u>			<u> </u>		Enable	Auto	10054	Full	On	On	On	On
12						Enable	Auto	10054	Full	On	On	On	On
13					<u> </u>	Enable	Auto	10054	Full	On	On	On	On
14	<u> </u>			<u> </u>		Enable	Auto	10054	Full	On	On	On	On
15	<u> </u>			<u> </u>	<u> </u>	Enable	Auto	10054	Full	On	On	On	On
16	<u> </u>					Enable	Auto	10054	Full	On	On	On	On
17						Enable	Asto	10004	Full	On	On	On	On
18	<u> </u>			<u> </u>	<u> </u>	Enable	Asto	10054	Full	On	On	On	On
19						Enable	Asto	100M	Full	On	On	On	On
20	-					Enable	Auto	10054	Full	On	On	On	On
21						Enable	Auto	100M	Full	On	On	On	On
22						Enable	Asto	10054	Full	On	On	On	On
23	<u> </u>					Enable	Asto	10054	Full	On	On	On	On
24						Enable	Auto	100M	Full	On	On	On	On

- TX/RX Capability: When the Auto-Negotiation column is set as Disable, users have to set this column as Enable or Disable.
- Auto-Negotiation: Enable and Disable. Being set as 'Enable', the Speed, Duplex mode, Pause, Backpressure, TX Capability and Address Learning are negotiated automatically. When you set it as 'Disable', you have to assign those items manually.
- Speed: When the Auto-Negotiation column is set as Disable, users have to set the connection speed to the ports ticked.
- Duplex: When the Auto-Negotiation column is set as Disable, users have to set the connection mode in Half/Full to the ports ticked.

- Pause: Flow Control for connection at speed of 10/100Mbps in Full-duplex mode.
- Backpressure: Flow Control for connection at speed of 10/100Mbps in Half-duplex mode.
- Addr. Learning: When the Auto-Negotiation column is set as Disable, users have to set this column as Enable or Disable.
- Select Port No.: Tick the check boxes beside the port numbers being set.
- Click Update to have the configuration take effect.
- Current Status: Displays current port status.
- Setting Status: Displays current status.

Click **Update** to make the configuration effective.

Port Management: Port Mirroring

The Port mirroring is a method for monitoring traffic in switched networks. That Traffic through ports can be monitored by any of the ports means traffic goes in or out monitored (source) ports will be duplicated into mirroring (destination) port.

Administrator Port Management	Port Mir	roring	J										
Port Configuration Port Mirroring		1	2	3	4	5	6	7	8	9	10	11	12
Bandwidth Control	Destination												
 Broadcast Storm Control 	Port	13	14	15	16	17	18	19	20	21	22	23	24
VLAN Setting													
Per Port Counter QoS Setting Security	Monitored	Disable	~							5			
Spanning Tree		1	2	3	4	5	6	7	8	9	10	- 11	12
Trunking	Source			•						•			0
Backup/Recovery	Port	13	14	15	16	17	18	19	20	21	22	23	24
Miscellaneous						0							
SNMP Settings Save Settings							date						
Save Settings	U						_						
. Folloge													

- Destination (mirroring) port for monitoring Rx only, Tx only or both RX and TX traffic which come from the source port. Users can connect the mirroring port to LAN analyzer or Netxray.
- Monitored Packets: Pull down the selection menu to choose what kind of packet is to be monitored.
- Source Port: The ports that the user wants to monitor. All monitored port traffic will be copied to mirroring (destination) port. Users can select multiple source ports by ticking the check boxes beneath the port number label to be monitored.

And then, click **Update** to have the configuration take effect.

Port Management: 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 from 1 to 255. This number should be multiplied by the selected bandwidth resolution to get the actual bandwidth.

			1 :	3 5 7 9 1	1 13 15 17 19 2	1 23
Bai	ndwidt	h Cor	ntrol			
						-
	Port No.		Tx Rate			Rate
	01 M		(0~255,0 for full speed		(0~2	5,0 for full speed)
		Low:328	Obps 🗠			
Sp	eed Base	1. All per	ts use the same speed base.			
		2. When	setting the speed base to "High", t			
		3. When	changing the speed base, the rate v		s will be set to 0(fal	speed).
			Up	date		
Po	rt Link	Speed	Tx Rate(Kbpz)	By B	ate(Kbps)	1
		1004	Full Speed		ill Speed	1
2			Full Speed	F	ill Speed	1
3			Full Speed	Fa	ill Speed	1
4			Full Speed	Fi	ill Speed	
5)	Full Speed	Fi	ill Speed	1
6			Full Speed		ill Speed	
7			Full Speed		ill Speed	
8			Full Speed		ill Speed	
9			Full Speed		ill Speed	
10		-	Full Speed		dl Speed	
1			Full Speed Full Speed		ill Speed Ill Speed	
1		.	Full Speed Full Speed		ill Speed ill Speed	
1			Full Speed		ill Speed ill Speed	
		. 1	Full Speed		il Speed	
10			Full Speed		ill Speed	1
1		- 1	Full Speed		il Speed	
			Full Speed		ill Speed	1
19			Full Speed		ill Speed	
20		1	Full Speed	F	ill Speed	1
21	1		Full Speed	Fi	ill Speed	1
23	2		Full Speed	F	ill Speed	1
					di Speed	
23	3	- 1	Full Speed		iii opees	

Port Management: Broadcast Storm Control

The switch implements a broadcast storm control mechanism. Tick the check boxes to have them beginning to drop incoming broadcast packets if the received broadcast packet counts reach the threshold defined. Each port's broadcast storm protection function can be enabled individually by ticking the check boxes.

Image: Strategy of the	> Administrator > Port Management	Broadca	st St	orm	Cont	trol						
Principularization 1 2 3 4 5 6 7 8 9 10 11 12 A Naming 2 3 4 5 6 7 8 9 10 11 12 A Naming 2 1 1 0	 Port Configuration Port Mirroring Bandwidth Control 	Threshold	63	(1-63)				Time	r Unit			
Pher Construct Table Pher 1			1	2	3	4	5	6	7	8		12
35 Sensing 13 14 13 16 17 1 10 20 12 22 23 24 orany 0 0 0 0 0 0 0 0 0 0 assang Tree 0 0 0 0 0 0 0 0 0 otage Tree 0 0 0 0 0 0 0 0 0 otage Tree 0 0 0 0 0 0 0 0 0 otage Tree 0 0 0 0 0 0 0 0 0 otage Tree 0 0 0 0 0 0 0 0 0 otage Tree 0 0 0 0 0 0 0 0 0 0 otage Tree 0 0 0 0 0 0 0 0 0 otage Tree 0 0 0 0 0 0 0 0 otage Tree 0 0 0 0 0 0 0 0 otage Tree 0 0 0	VLAN Setting Per Port Counter	Enable Port										
annung Free States	QoS Setting											
naking La	Security											
chap Recovery Intellineous MP Sortings	Spanning Tree Trunking						Up	date			 	
MP Settings ve Settings	Backup Recovery											
ve Settings	Miscellaneous											
	SNMP Settings Save Settings											
gout	Logout											

The broadcast packet is only checked at the selected port and the number of broadcast packets is counted in every time unit. One time unit is 500 us for 10Mbps speed and 5ms for 100Mbps. The excessive broadcast packet will be discarded. For those broadcast packets incoming from the un-selected port, the switch treats it as the normal traffic.

- Threshold: Type in the threshold in the range between 1 and 63 to limit the maximum byte counts, which a port can send or receive in a period of time.
- Enable Port: Having ticked the boxes, the port will stop transmitting or receiving data when their sending byte counts or receiving byte counts reach the defined threshold.

Click **Update** to have the configuration take effect.

VLAN Setting: VLAN Mode

You may select the VLAN Mode of the switch.

Port-Based Mode

Port-based VLAN is for separating traffic only on this single switch. There is no handover of network traffic within VLAN groups to other switches.

Tag Baesd Mode

For the handover to other switches use Tag Based VLAN. In VLAN Mode you can switch from Tag to Port Based VLAN. Port Based VLAN is the default mode.

24-Port 10/100M	pbs Modular Fast	Ethernet Switch	6 8 10 12 14 16 18 20 22 24 5 7 9 11 13 15 17 19 21 23	1		
Administrator Administrator VLAV String * ULAV String * String Society So	VLAN Mode	13	5 7 9 11 13 15 17 19 21 2 1 8 19 19 19 10 21 2			
> SSMP Sectings > Save Settings > Logout						

VLAN Setting: VLAN Member in Port Based Mode

In Port Based Mode you see a matrix of your 16 Ports. Simply select the port on top screen you want to configure, click on Read, and then select or deselect the ports that are on the same VLAN group. In this configuration mode you do not need to worry about defining VLAN groups and VLAN IDs.

ort Management	Administrator					.0				
	fort Management	AN Memo	er set	ing (Po	π Base	a)				
• STATUST • Statust <t< th=""><th>VLAN Setting</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	VLAN Setting									
Mint Inform Port Constant Port Cons	VLAN Mode Na	me .	(max)	0 characters)	kdd Rename					
University Univers		Delete Updat	• LoadD	efault						
b) Setting sensity Deterministic (0 + 1) D		estination PORT		02	03	04	05	06	07	08
Sectory Sectory <t< td=""><td>0.00.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	0.00.0									
Jamma Free Jamma F										
Particle District										
State State <th< td=""><td></td><td>estination PORT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		estination PORT								
Value Value <th< td=""><td></td><td>Select</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Select								
NP Settings VLAN MEX0ER res Settings 01 02 03 04 05 06 07 01 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24										
ve Settings Port Num 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24					17.4	A VELOPP				
		Port Nam 01	02 03 0	4 05 05 0			13 14 15	16 17 18	19 20 21	22 23 24
	save settings									
	ogout									

VLAN Setting: VLAN Member in Tag Based Mode

 Administrator Port Management VLAN Setting 	VLAN Mode						
VLAN Mode	VLAN Mode		Tag I	Based VLAN	Change VLAN mod	c	
VLAN Member	VLAN Tag Mode	-i		Tag/Untag b	ase on Port 👻		
 Multi to 1 Setting Per Port Counter QoS Setting 		Port 01 O Add Tag Don't Care Remove Tag	Port 02 Add Tag Don't Care Remove Tag	Port 03	Port 04 Add Tag Don't Care Remove Tag	Port 05 Add Tag Don't Care Remove Tag	Port 06 Add Tag Don't Care Remove Tag
 Security Spanning Tree Trunking Backup/Recovery 	AddTag Type (Add VLAN Tag to	Port 07 O Add Tag Don't Care O Remove Tag	Port 08 Add Tag Don't Care Remove Tag	Port 09 O Add Tag Don't Care Remove Tag	Port 10 Add Tag Don't Care Remove Tag	Port 11 O Add Tag On't Care O Remove Tag	Port 12 O Add Tag Don't Care Remove Tap
Miscellaneous SNMP Settings Save Settings	output frames according to the pvid of selected port)	Port 13 C Add Tag Don't Care Remove Tag	Port 14	Port 15 O Add Tag Don't Care Remove Tag	Port 16 Add Tag Don't Care Remove Tag	Port 17 O Add Tag Don't Care Remove Tag	Port 18 Add Tag Don't Care Remove Tap
Logout		Port 19 O Add Tag Don't Care Remove Tag	Port 20 Add Tag Don't Care Remove Tag	Port 21 O Add Tag Don't Care Remove Tag	Port 22 Add Tag Don't Care Remove Tag	Port 23 Add Tag Don't Care Remove Tag	Port 24 O Add Tag Don't Care O Remove Tas

- Add a VLAN: Enter a VID, select the VLAN member and click the VID source port and then enter a group name. Finally press "add" button to send this command. The VLAN will be added to the list.
- **Delete a VLAN:** Select a VID and press "Delete" to remove a VLAN.
- **Modify a VLAN:** Select a VID which you want to modify. After the web page shows up, select the VLAN member and VID source port and then press "update".

Add a VLAN Group

Step 1: Select / De-Select the VLAN ID Step 2: Select / De-Select VID source corresponding to this VID Step 3: Press " Update "

VLAN Setting: Multi to 1 Setting

Multi to I VLAN is used in CPE side of Ethernet-to-the-Home and 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 which will be excluded in this setting. All ports excluded in this setting are treated as the same VLAN group. In a normal Tag Based VLAN network you will not need this configuration option.

24-Port 10/100M	2 4 6 1 1012 24 16 11 20 22 24 pbs Modular Fast Ethernet Switch =
 Administrator Port Management VLAN Setting 	Multi to 1 Setting
VLAN Mode VLAN Mode VLAN Member Madrito 1 Satting Per Port Counter QoS Setting Security Spanning Tree Irunking Backup Resourt	Easter Duals 3/2 Particioni Particioni Consult Particioni Particioni Consult Particioni
 Missilineou SMIP Settings Save Settings Save Settings Legent 	Ports VLAN Groups (0) 1 Destination Perty Current Setting (0) M 1: Designed uping of a VLNC perge with bits during of a period has fastered. (1) the shake last of the VLNC perge with bits during and pripared types ments uting

Per Port Counter: Counter Category

This page provides port counter of each port. There are 4 categories: Receive Packet & Transmit Packet/ Transmit & Collision / Receive Packet & Drop /Receive & CRC error. Once you change the counter category, the counter will be cleared automatically.

24-Port 10/100	Mpbs Modular Fast	Ethernet Switch	7 9 11 13 15 17 19 21 23
Administrator	Counter Categ	iorv	
Port Management		,	
VLAN Setting			
Per Port Counter	Counter Mode Selection		<u>~</u>
Port Counter	New The construction of the	Receive Packet & Transmit Packet Transmit Packet & Collision	r mode.
QoS Setting	Port	Receive Packet & Packet Drop	Trammit Packet
Security	1	Receive Packet & CRC Error Packet	3433
Spanning Tree	2	•	0
Trunking	3	•	0
Backup/Recovery	4	• 1	0
Miscellaneous	5	0	0
SNMP Settings	6	0	0
SAMP Settings	7	0	0
	8	•	0
Logout	9	0	0
	10	•	0
	11	•	0
	12	٥ (0
	13	0	0
	14	•	0
	15	0	0
	16	•	0
	17	•	0
	18	•	0
	19	•	0
	20	•	0
	21	0	0
	22	0	0
	23	0	0
	24	·	0
		Refresh Clear	

> Transmit packet & Receive packet:

This category shows both the received packet count (excluding the incorrect packet) and the transmitted packet count.

Collision Count & Transmit packet:

This category shows the packets outgoing from the switch and the count of collision.

Drop packet & Receive packet:

This category shows the number of received valid packet and the number of dropped packet.

CRC packet & Receive packet:

This category shows the received correct packet and received CRC error.

- Clear: Press "clear" will clear all counters.
- Refresh: Press "Refresh" button will aggregate the number of the counter for all ports.

QoS Setting: Priority Mode

24-Port 10/1	2 4 6 8 10 12 14 16 18 20 22 24 100Mpbs Modular Fast Ethernet Switch 1 3 5 7 9 11 13 15 17 19 21 23
 Administrator Port Management MALANG using 	Priority Mode
 VLAN Setting Per Port Counter QoS Setting Priority Mode Class of Service Security 	First-In-First-Out All-High-before-Low(Strict Priority): All packets will be assigned to either Q1, Q2(high) piority queue or Q3, Q4(low) priority queue. 4 Queue WRR Q1: 16 Q2: 16 Q3: 16 Q4: 16 Update
 > Spanning Tree > Trunking > Backup/Recovery > Miscellaneous > SNMP Settings 	
 Save Settings Logout 	

There are three priority modes available to specify the priority of packets being serviced. Those include First-in-First-out, All-High-Before-Low, and-Weight-Round-Robin.

- First-In-First-Out: Packets are placed into the queue and serviced in the order they were received.
- All-high-before-low(Strict priority) :

All packets will be assigned to either high priority queue (Queue 2) or low priority queue (Queue 1). The packet on the low priority queue will not be forwarded until the high priority queue is empty.

WRR mode: There are 4 priority queues for Weighted-and-round-robin (WRR) mode:

When this mode is selected, the traffic will be forwarded according to the member set in each queue.

QoS Setting : Class of Service

24-Port 10/10	00Mpbs Modula	r Fast Ethe	rnet Swite	h 🗎 🗍 🗄	10 12 14 16 1 9 11 13 15 1			
strator	Class of	Service						
agement								
ing	The switch treats	CP/UDP, IP TO	5/DS, 802.1p and	physical port CoS	scheme in the follo	ming priority.		
Counter	TCP/UDP > IP TO This means TCP/U							
rting Priority Mode	(1) TCP/UDP por							
lass of Service		Note:						
	Protocol	(1) Q1 ~ Q4 (2) "Drop" o	options are effect	tive for the selecte al setting for all phy	d physical port onl	у.		
Tree	FTP	Q4 ¥		SSH	Q4 💌	TELNET	0	4 💌
l Recovery				0011		ADDIDA		•
icons.	SMTP	Q4 💌	1	DNS	Q4 💌	TFTP	Q	4 💌
ttings	HTTP	Q4 💌	2	OP3	Q4 🗸	NEWS	0	4 🗸
ings		_				_		
	SNTP	Q4 💌	Ne	tBIOS	Q4 💌	IMAP	Q	4 🗸
	SNMP	Q4 💌	н	TTPS	Q4 💌	MSN	0	4 🛩
		_				BOOTP/	_	
	XRD_RDP	Q4 💌		ICQ	Q4 💌	DHCP	Q	1 💌
	User- defined A	Q4 💌	det	Jaer- fined B	Q4 🗸	User- defined C	0	4 🗸
	TCP/UDP		TC	P/UDP		TCP/UDP		
		Note: ` ser-defined A	These user-defin		are the same as tha efined B	t used in TCP/UD	P filter User-define	10
	Port:	~ Port:		Port:	~ Port:	Por		
			The TCP/UE	P port will be chec	ked on the followin	g physical port		
	01	02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
	Ö		ü	i ii	ő		ő	
	17	18	19	20	21	22	23	24
					date			
	The Class of Service	on for TCR1IDR	post comber allo		ninistrator to assign	the specific and	ication to a prior	its: onesa
	(2) IP TOS/DS IP TOS/DS		-					
	Delevine				Q1 🛩 6'b10001 Q1 🛩 Other Va			
	Setting	6/6101110: 22	675110000: [Port Setting	ues: Q4		
	01	02	03	04	05	05	07	08
	09	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	24
				Us	date			
	(3) 802.1p							
	For \$02.1p priori	y field, the switch	utilizes the foll	owing priority map	ping table.			
	6 and 7 are ma 4 and 5 are ma	pped to the "Q1" pped to the "Q2" pped to the "Q3"	priority queue. priority queue.					
	2 and 3 are ma 0 and 1 are ma	pped to the "Q3" pped to the "Q4"	priority queue.					
					t Port			
	01	02	03	04	05	06	07	08
	09	10	11	12	18	14	15	16
	Ö		ö	i i	ő		ő	
	17	18	19	20	21	22	23	24
				U	date			
	(4) Physical port							
	1	2	3	4	5	6	7	8
	Q4 🛩	Q4 🖌	Q4 🛩	Q4 🛩	Q4 🛩	Q4 🖌	Q4 💌	Q4 💌
	9	10	11	12	13 Q4 🛩	14	15	16
	Q4 🛩	Q4 🖌	Q4 ¥	Q4 ¥		Q4 🛩		
	17	18	19	20	21	22	23	24
				20 Q4 💌				

There are 4 types of CoS for this setting; ie, TCP/UDP port, TOS/DS, 802.1p and physical port. The user can select more than one item for each port.

Please note that if more than one type of CoS is selected, the switch will arrange the packet to the assigned queue according the following priority: TCP/UDP port the first, ToS/DS the second, 802.1p the third and physical port the last.

For 802.1p priority, the following table is used to map the 802.1p field to the priory queue.

Priory Field	Priority Queue
6, 7	Q4
4,5	Q3
0,3	Q2
1,2	Q1

For TOS/DS priority, there are 7 kinds of TOS field can be assigned to 4 different queues. i.e; 6'b001010, 6'b010010, 6'b100010, 6'b101010, 6'b110000 and 6'b111000.

TCP/UDP port based COS

The user can select the protocol that will be forwarded as the specified mode. There are 3 user-defined UDP/TCP port groups and many well-known TCP/UDP ports. The user-defined port number may be a range or a specific number, depending on the mask.

The operating theory for all 4 CoS types can be illustrated by the following figure and table.

TCP/UDP CoS is a global setting for all ports and has no connection with the physical port. Other CoS types have a connection with the physical port.

(a) Priority Mode:	WRR. Q1=4; Q2=2; Q3=8; Q4=1
(b) TCP/UDP CoS:	P2 FTP =>Q3; P5 SMTP => Q2; other
	protocols=Q1
(c) TOS/DS setting:	P5 TOS 6'b010010=Q1; P2 TOS
	6'b100010=Q3; other TOS=Q4
(d) 802.1p:	P5 802.1p = 6; P2 802.1p =1
(e) Physical port:	P2=Q4; P2=Q3

According to the rule described above, the CoS will be executed in the following sequence.

TCP/UDP > TOS/DS > 802.1p > Physical port.

The actual CoS will behave like this table.

Switch Behavior Observed on P 3	Comment
8 packets coming from P2;	If TCP/UDP CoS is enabled,
2 packets coming from P5;	the other CoS setting will be
8 packets coming from P2;	ignored.
8 packets coming from P2;	If TCP/UDP CoS is disabled,
4 packets coming from P5;	the switch will check TOS/DS
8 packets coming from P2;	CoS.
1 packet coming from P2; 4 packets coming from P5; 1 packets coming from P2;	If TOS/DS CoS is disabled, the switch will check the 802.1p field.
1 packet coming from P2;	If only physical port CoS is
8 packets coming from P5;	enabled, the switch only
1 packet coming from P2;	check the physical port CoS.

Security: MAC Address Binding

inistrator	MAC Ad	Idress Bin	ding	
Management				
Setting	(
ort Counter	Port No	3	IAC Address	
etting				
y -				
MAC Address				
Binding			Read	
MAC Address Scan	Selec	t Port 01 🍟 Bindi	Disable 💙	Update
TCP/UDP Filter				
IP Address Filter	Port No	Filter Status	Port No	Filter Status
ning Tree	1	Disable	13	Disable
iking	2	Disable	14	Disable
p/Recovery	3	Disable	15	Disable
laneous	4	Disable	16	Disable
(P Settings	5	Disable	17	Disable
Settings	6	Disable	18	Disable
at	7	Disable	19	Disable
	8	Disable	20	Disable
	9	Disable	21	Disable
	10	Disable	22	Disable
	11	Disable	23	Disable
	12	Disable	24	Disable

- Port No: Displays the port number being assigned the MAC addresses.
- MAC Address: Users can assign up to 3 MAC addresses to the port.
- Read: Pull down the selection bar to choose a port number and click the read button to show the MAC addresses bound with the port or modify the MAC addresses.
- Select Port: Pull down the selection menu bar to choose a port number to be set.
- > Binding: Enable or disable the binding function.

Click **Update** to have the configuration take effect.

Security : Scan MAC



Scan MAC shows the MAC address learned by the switch, To add a MAC address to the Static MAC address list, select the port no and it will show the MAC address of the identified address.

Security: TCP/UDP Filter Configuration

24-Port 10/100	Mpbs Modular I	ast Ethernet Sw	itch	12 14 16 18 20 22 24		
⁹ Administrator ⁹ Port Management ⁹ VLAN Setting	TCP_UDP	Filter Configu	ration			
Par Port Counter	Function Enable	Diable 🐱				1
QoS Setting Security MAC Address Binding MAC Address Scan TCP/UDP Filed Filed Filed	Port Filtering Rule	and other protocols w "Allow" means the sel- Note: 1. The secure WAN po 2. Once this function i at the outgoing direction	II be forwarded. acted protocol will be forwar ort should be set at the physic	port with selected protocol w led and other protocol will be all port which is connected to ck the destination TCP/UDP sped or forwarded.	dropped. the server.	
Spanning Tree		Port01	Port02	Port03	Port04	
Trunking		Port05	Port06	Port07	Pert08	
Backup/Recovery	Secure Part	Port09	Port10	Port11	Port12	
Mitcellaneous	Secure Port	Port13	Port14	Port15	Port16	
SNMP Settings		Port17	Port18	Port19	Port20	
Save Settings		Port21	Port22	Port23	Port24	
Logout		DFTP	SSH .	TELNET	I SMTP	
		DNS	TFTP	HTTP	POP3	
		□ NEWS	I SNTP	NetB305	IMAP	
	Protocol	□ SNO(P	INTTPS	MSN	XRD_RDP	1
		🗆 10Q	BOOTP/ DHCP	User-defined A TCP/UDP	User-defined B TCP/UDP	
		User-defined C TCP/UDP				

By selecting the TCP/UDP port, the network administrator can optionally block some specific applications. There are two kinds of protocol filter functions.

Allow Mode

The "forward" function makes the switch forward the selected protocol and drop other protocols.

Deny Mode

The "deny" function makes the switch drop the selected protocol and forward other protocols. The protocol is checked at the selected secure WAN port. And it should be set at the server side.

The figure shown above illustrates how this function is applied to the real environment.

Note: The TCP/UDP Filter's user-defined Port-Range is in QoS Setting's Class of Service

24-Port 10/100M	pbs M	lodula	r Fa	st Ethern	iet Sw	ritch	24	
Administrator Port Management VLAN Setting	IP A	ddre	ss C	Configu	ratio	n		
 Per Port Counter QoS Setting Security MAC Address Binding 	Set IP Ad Switch	dress/ II	address vitch Po		Set NO.	01 🖌		_
Binding MAC Address Scan TCP/UDP Filter		10		Global Set		_		
IP Address Filter Spanning Tree	Range		IP m	Check Sourc	_	r. 💌	~	
 Trunking Backup/Recovery 	_	01	02	Enable Po 03 04	05	06	07	08
 Miscellaneous SNMP Settings 	Port	09	10	11 12	13	14	15	16
 Save Setting: Logout 		17	18	19 20	21	22	23	24
				Update]			
		t No 01		IP Setting			Port N	
		02						_
		03 04						
		05				-		
		06						
		07				-		_
		09				÷		
		10						
		11	<u> </u>			-		
		12				i		
		14						_
		15 16	-			-		
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		18	_			1		_
		19 20	-			-		
		21					-	
		22		,,,				_
		23	-			-		
		25				i—		_
		26						
		27 28				<u> </u>		
		29 29				-		
		30		,,		í		
		31				<u> </u>		_
		32						

Security: IP Address Configuration

IP Address Configuration is a feature to manage the switch from a remote station . You can enter up to 30 designed management station networks by defining the IP address.

To define a management station IP setting. Selet the certain Set No. (Range 1 - 32) and apply the IP address to the certain define port and click "Add" you man complete the setting.

Global Setting

There are 2 range that you may choice from the Globle Setting :

Check Source IP adder or Destin IP adder as

Also, there are 4 Rule that you can define the setting :

IP mismatch can pass

IP match can pass

IP match and port match pass

IP match and port mismatch can pass

Spanning Tree: STP Bridge Setting

24-Port 10/100N	2 4 6 8 10 12 14 16 Mpbs Modular Fast Ethernet Switch
Administrator Port Management VLAN Setting	STP Bridge Settings
Per Port Counter	Bridge Status Setting
QoS Setting Security	Bridge Priority Hello Time Max Age Feeward Delay STP Mode (0-61440) (1-10 5ec) (6-40 5ec) (4-50 5ec)
panning Tree	
STP Bridge Settings	Submit
· STP Port Settings	Note: 2*(Forward Delay-1) >= Max Age,
Loopback Detection	
runking	Max Age >= 2*(Hello Time+1)
lackup Recovery	Bridge Priority must be a multiple of 4026
Miscellaneous	
SNMP Settings	
Save Settings	Bridge Status
Logout	STP Mode Bridge ID Hello Time Max Are
	RSTP 32768:50 50 13 F0 13 F0 2 20
	Base Stream Base Stream Man Apr FrenerDay To the new todget 2 20 15

- Bridge Priority: This parameter configures the spanning tree priority globally for this switch. The device with the highest priority becomes the STP root device. However, if all devices have the same priority, the device with the lowest MAC address will then become the root device. Number between 0 - 61440 in increments of 4096. Therefore, there are 16 distinct values.
- Hello Time: Interval (in seconds) at which the root device transmits a configuration message (BPDU frame). Number between 1-10 (default is 2).
- Max Age: The maximum time (in seconds) a device can wait without receiving a configuration message before attempting to reconfigure. That also means the maximum life time for a BPDU frame. Number between 6-40 (default is 20).
- Forward Delay: The maximum time (in seconds) the root device will wait before changing states (i.e., discarding to learning to forwarding). Number between 4 – 30 (default is 15)

Spanning Tree: STP Port Settings

			1357	9 11 13 15 17 19 21 23			
	rt Settings						
agement							
tting							
Counter	STP Port Settings						
ing	Priority	RPC					
Port No.		(00000000)					
Tree	(0~240)						
		=AUTO					
P Deridge Settings	· // · · · · ·						
ophack Detection	Submit						
	be a multiple of 16						
Lecovery							
140118							
ttings				SIP Port Status		1	
	1	1	1	((Desimated	
Port No.	RPC	Priority	State	Status	Designated Bridge	Port	
1	Auto:200000	0x80	Designated Port	Forwarding	-	-	
2	Aste:0	0x80		Disable			
3	Asto:0	0x80		Disable			
4	Aste:0	0x80		Ditable			
5	Aste:0	0x80		Disable			
6	Asto:0	0x80		Disable			
7	Aste:0	0x80		Disable			
8	Asto:0	0x80		Disable			
9	Aste:0	0x80		Disable			
10	Asto:0	0x80		Disable			
1	Aste:0	0x80		Disable			
12	Aste:0	0x80		Disable			
13	Asto:0	0x80		Disable			
14	Aste:0	0x80		Disable			
15	Asto:0	0x80		Disable		<u> </u>	
16	Auto:0	0x80		Disable			
17	Aste:0	0x80		Disable			
	Auto:0	0x80		Disable			
18	Aste:0	0x80 0x80		Disable			
19				Disable			
19	Auto:0						
19 20 21	Asto:0	0x80		Disable			
19				Disable Disable Disable			

- Port No: The port ID. It cannot be changed. Aggregations mean any configured trunk group.
- Root Path Cost: This parameter is used by the STP to determine the best path between devices. Therefore, lower values should be assigned to ports attached to faster media, and higher values assigned to ports with slower media. Set the RSTP path cost on the port. Number between 0 - 200000000. 0 means auto generated path cost.
- State: Show the current port state includes designated port, root port or blocked port.
- Status: Show the current port status includes forwarding, disable etc.

Spanning Tree: Loopback Detection Settings

			1 3 5 7 9 11 13 15 17 19 21 2
Administrator	Loopback	Detection Settings	
Port Management			
VLAN Setting	Loonha	ck Detect Function	Enable 🐱
Per Port Counter OoS Setting		nto Wake Up	Disable 🛩
Security		Up Time Interval	10 (5-250 sec)
Spanning Tree	water	Submit	<u>(5+230380)</u>
 STP Bridge Settings 		201021	
 SIP Bridge Settings SIP Port Settings 			
Loopback Detection			
Trunking	Reset All Ports		
Backup/Recovery	Port No.	Status	
Mitcellaneous	Port No.	512103	
SNMP Settings	2	-	
Save Settings	3		
Logout	4		
	5		
	6	-	
	7	-	
	8		
	9		
	10	-	
	11		
	12		
	13		
	14	-	
	15		
	16		
	17		
	18	-	
	19		
	20		
	21		
	22		
	23		
	24		

This feature is to detect each port, to see any cable loop occurred on a single port. When Transmit a data packet from one port and also Receive same data packet from the same port, it is caused by the cable which connect to the port has a loop (i.e. TX lines tie together with RX lines), This switch will disable the port.

Trunking

24-Port 10/100N	Apbs Modular Fa	st Ethe	rnet S	vitch				6 18 20 5 17 19	
 > Administrator > Port Management > VLAN Setting 	Trunking								
Per Port Counter	Syste	m Priority				1	(1-6	5535)	
QoS Setting	Link Aggreg	ation Algo	rithm			MAC	Sre&Dat	~	
Security				Submit	1				
 Backup/Recovery Mircellaneous SNMP Settings 			Link C	~Port4)	~		ex 2(Port)		~
Save Settings	Member	MI	M2 F2	M3	M4	MI	M2	M3	M4
Logout			10						
	State	1	Disal	de 🛩			Disal	ble 🛩	
	Туре	1	LAC	P 🛩			LAC	:P ♥	
	Operation Key	1		(1~6553	5)	2		(1~6553	5)
	Time Out		Short Tir	ne Out 🛩		Short Time Out 💌			
	Activity Passive M				Passive M				
	Activity	Submit							
	Admiy			Submit	t .				

This page is used to set trunk group for load balance and auto-backup.

The smart switch supports two trunk group, each trunk consists of $2\sim4$ ports. Trunk hash algorithm can be selected according to 4 different methods.

- **Port ID:** Among the trunk member ports, the packet will be distributed based on the port ID.
- **SA:** Among the trunk member ports, the packet will be distributed based on the source MAC address.
- **DA:** Among the trunk member ports, the packet will be distributed based on the destination MAC address.
- **DA&SA:** Among the trunk member ports, the packet will be distributed based on the XOR calculation result of the source MAC address and the destination MAC address.

Backup/Recovery

This function provides the user with a method to backup/recovery the switch configuration. The user can save configuration file to a specified file. If the user wants to recover the original configuration, which is saved at the specified path, just enter the password and then press the "upload" button. Finally the original configuration of the switch will be recovered.

24-Port 10/100N	2 4 6 1 10 2 14 6 13 20 2 24 Jpbs Modular Fast Ethernet Switch 5 7 9 11 12 15 17 19 2 20 5 7 9 11 12 15 17 19 2 20
 Administrator Per-Mongammat VLNS Setting VLNS Testing VLNS Testing Qed Satting Qed Satting Qed Satting Per-Period State Sta	Configuration Backup/Recovery Backup(Switch-PC) Please check "Download EEPROM contents Download Recovery(PC-Switch) Subter the mag file Parred Datas

Miscellaneous: Miscellaneous Settings

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

24-Port 10/1001	2 4 6 8 1012 14 16 18 20 22 24 Jpbs Modular Fast Ethernet Switch 3 5 7 9 11 13 15 17 19 21 23
> Administrator > Port Management > VLAN Setting	Miscellaneous Setting
 Per Port Counter QoS Setting Security 	Dataset Queues Aging Time Dialative The output queues aging functional Bloom the administrator to subschematisk the the aging times of a packet stored in the output queue. A packet stored in the output queue. A functional Bloom the first gradient stored in the output queue. A functional Bloom the administrator to subschematic administresubschematic administresubschematic administratorete
 Spanning Tree Trunking Backup Recovery 	ULAN Secondary Duality When this function is enabled, the wireh varies and filterand a unit-cate packet to the destination port. No matter whether the destination port is in the aure VLAN group. ICMP Secondary VLAY2
* Miscellaneous Miscellaneous Setting	Disable W ZGMP Bocoping VI &V2 functions estable. Enable W Lawe packet will be forwarded to SGMP rooter ports. VLAN Vallank Section VLAN Vallank Section
 Igmp Static Router Settings SNMP Settings Save Settings 	Pol. Pol. Pol. Pol. Pol. Pol. Pol. Pol.
> Logout	Butenit

- Output queue aging: This function is used to avoid the poor utilization of the switch. When a packet is stored in a switch for a long time, it will expire from the allowable time defined by the protocol and become a useless packet. To prevent these packets from wasting the bandwidth, this switch provide an option for the administrator to enable the queue aging function.
- VLAN Striding: By selecting this function, the switch will forward uni-cast packets to the destination port, no matter whether destination port is in the same VLAN.
- IGMP Snooping: When this function is enabled, the switch will execute IGMP snooping version 1 and version 2 without the intervention of CPU. The IGMP report and leave packets are automatically handled by the switch.

Miscellaneous: IGMP Static Router Setting

24-Port 10/100	Mpbs Modular F	2 4 6 8 1012141611202224 ast Ethernet Switch 1 3 5 7 9 11 131517192122
 > Administrator > Port Management 	IGMP Static	Router Setting
 VLAN Setting Per Port Counter QoS Setting Security Soganning Tree 	Select Port No.	01 02 05 04 05 06 07 08 09 10 11 12 15 14 15 16 17 18 19 20 21 22 23 24 Refered Cypeter
 > Trunking > Backup/Recovery > Miscellaneous > Miscellaneous 		
Mincellaneous Settings Igmp Static Router SnMP Settings		
 Save Settings Logout 		

To enable IGMP snooping for a given VLAN, select enable on Then press the "Update" button under Router Port Setting, and select the ports to be assigned as router ports for IGMP snooping for the VLAN. A router port configured manually is a Static Router Port, and a Dynamic Router Port is dynamically configured by the Switch when a query control message is received.

SNMP Settings

24-Port 10/10	0Mpbs Modular Fast Ethernet S	Switch 1 3 5 7 9 11 13 15 17 19 21 :	19 19					
 > Administrator > Port Management > VLAN Setting 	SNMP Settings							
Per Port Counter QoS Setting		Community Settings						
> Security	Community Name			Access Right				
Spanning Tree	public			Read/Write 💌				
Trunking		Read Only 🛩						
Backup Recovery		Uodan						
> SNMP Setting								
Save Settings			SNMP Settings					
Logout	System Descrition							
	System Contact							
	System Location							
			Update					
			MP Trap Settings					
	Trap State	Ezable 💌						
	Enable Trap Server	Disable 💌						
	Trap Server Address							
	Trap Server Status							
			Refemb Upadie					
	Trap Server Status		Refent Upadie					

The SNMP Setting allows you to quick enable/ disable the SNMP function and configure the SNMP Community name.

The default SNMP setting is disabled. Click Enabled, enter community names to configure community Settings.

Community Settings

Community Name: A community name that acts like a password and permints access to the SNMP protocol.

- **Public:** Read-Only privilege allows authorized management stations to retrieve MIB objects.
- **Private :** Read /write privilege allows authorized management stations to retrieve and modify MIB OBJECTS.
- SNMP Setting: In support of SNMP version 1, the Web-Smart Switch accomplishes user authentication by using Community Settings that function as passwords. The remote user SNMP application and the Switch SNMP must use the same community string. SNMP packets from a station that are not authenticated are ignored.

System Description	A Description assigned to the switch
	system
System Contact:	Specifies the system Contact
System Location:	Specifies the system Location

2 4 6 5 1 10 12 14 6 11 20 22 24 24-Port 10 100Mpbs Modular Fast Ethernet Switch					
> Administrator					
Port Management	Save Settings				
VLAN Setting	Click the button and confirm to save all settings of the switch.				
> Per Port Counter					
QoS Setting	If you don't save the settings, the switch will use the values you have saved last time after rebooted.				
Security					
Spanning Tree	Save				
Trunking					
Backup/Recovery					
Miscellaneous					
SNMP Settings					
> Save Settinge					
> Logout					

Logout

The administrator has write access for all parameters governing the onboard agent. User should therefore assign a new administrator password as soon as possible, and store it in a safe place.



When you forgot your IP or password, please use the reset button for the factory default setting?

Please take the following steps to reset the Web Smart Switch back to the original default:

Step 1:

Turn on the Web Smart Switch

Step 2:

Press and hold the reset button continuously for 5 seconds and release the reset button.

Step 3:

The switch will reboot for 20 seconds and the configuration of switch will back to the default setting.

Site	192.168.2.1
D);	admin
assword:	

Key in the user ID and the password to pass the authentication; the user ID and the password are "admin"

IP: 192.168.2.1 ID: admin Password: admin