

ODOT ES326 Series

Industrial Switch

User's Manual



Sichuan Odot Automation System Co., Ltd. 2016-02

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Administrator

A_{\times} PC NIC setting

IP address: 192.168.2.X (X: 1~254) Subnet mask: 255.255.255.0

Internet Protocol (TCP/IP) Pr	roperties 🛛 🛛 🔀
General	
You can get IP settings assigned this capability. Otherwise, you nee the appropriate IP settings. O Obtain an IP address autom. • Use the following IP address	automatically if your network supports ad to ask your network administrator for atically s
IP address:	192.168.2.99
S <u>u</u> bnet mask:	252 . 255 . 255 . 0
Default gateway:	
 O D_btain DNS server address O Use the following DNS server Preferred DNS server: Alternate DNS server: 	automatically er addresses:
	Advanced

B、**Login** Default IP : 192.168.2.1

Login ID: admin (Lowercase) Password: system (Lowercase)





C、Welcome to 8 Port Smart Switch Web Controller





1 Authentication Configuration

SmartSwitch Web-Base Controller - Micro	osoft Internet Explorer									- 🗆 ×
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			1	2	3	4	5	6	7	8
8-Port 10/1	00Mbps Fast Ethernet	Switch								
	Authentication Cor	figuration								
 Authentication Configuration 										_
System IP Configuration	Setting			Value	э					
 System Status 	Username	admin	max:15							
Load default setting	Descuard	, жажжа	may:15							
Reset Device	Confirm	****	max. rs							
Port Management		U	pdate							
VLAN Setting	[L									
QoS Setting	Note:									
Port Security	Hearnama & Passmord can on	w 1100 "2 7" " 4 7"	" "∩ 0" " " "		n_n					
Configuration Backup/Recovery	Osemanie & rassword can on	Juse a-2, n-2	,	т,-,						
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(Username & Password max:15 & can only allows "a-z","A-Z","0-9","_","+","-","=".)

2. System IP Configuration

Default IP: 192.168.2.1

The following screen is the example of changing the IP address to 192.168.2.5.

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8-Por	t 10/100Mbps Fa	ast Ethernet Switch		2	3	4	5 📮	6 📮	7	8
 Administrator Authentication 	System IP Con	figuration								
Configuration System IP Configuration 	Setting	Val	lue							
 System Status Load default setting 	IP Address	192 . 168 .	2.5							
 Firmware Update Deset Device 	Subnet Mask	255 255	255 0							
Port Management	Gateway	192 . 168 .	2. 254	1						
VLAN Setting	IP Configure	 Static 	O DHCP							
QoS Setting Port Security		Update								
Configuration Backup/										
> Logout										
▲ 完成								網際網	路	1



IP address, Subnet Mask, and Gateway at system IP Configuration box can be configured by user. IP178C, and IP178CH also support DHCP methods to get IP address from DHCP server.

After clicking "update", you will see the system is re-booted.



Login in new IP address 192.168.2.5

SmartSwitch Web-Base Controller - Manual Inte 約次次(7) 1965(7) 1948(7) 他的问题子(4)	net Explorer	
+±-A · → · ③ · △ ◎ R#		
網址 @ 🍪 http://192.168.2.5/		▲ 小松至 連結 **
	USER LOG IN Site: 192.168.2.5 ID: admin Password: Terret OK	

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3 System Status

Display Switch MAC address, software version.

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movii (2) €] http://192.168.2.	10		1	റ 3	A	5	6	719主 7	定相・
9 Day	+ 10/100Mbps East Ether	ant Cultab				Ē	ŏ	Ó	Ď
0-FV	t Torroomops Fast Ethe								
😵 Administrator	System Status								
Authentication									
System IP		E0.00.17.00.12.F0							
Configuration	MAC Addless	50:60:17:60:15:F0					_		
 System status Load default setting 	Number of Ports	8	_				_		
Firmware Update	Comment	Switch							
Reset Device	System Version	IP210\$DK2_L2.21_ICI	Plus_IP178_V	'5.2.2_8T					
Port Management		Idle Time:	(1-	~30 Minutes)				
VLAN Setting									
Port Security	Idle lime Security	CAuto Logout(Defaul	t).						
Configuration Backup		C Back to the last disp	lay.						
Logout		Update							
	Note:								
	Comment name can only use "a-z"	,"A-Z","0-9","_","+","-	","=".						
ど 完成							網際網	格	11.

A. Comment: It is a nickname of the management switch you can set.

B. Idle Time Security: It is an AUTO logout timer and the idle time range is 1~30 Minutes. If select Auto Logout and click update without filling in the idle time blank, then the idle time will be the default value.

• Select Auto Logout (Default).

When idle time expires, the following notice will show up.

SerOK - Microsoft Laternet Explorer	_io;
una and a state a	6
8# @ http://192.168.2.1/c.ph/meout.cpi	一 ご い い む う む む う む む う む む む む む む む む む む
attest (201	
Notice	
Without any actions on this system, for security issue, this system has been logout automatically	y. Please re-login or close this window
Close window Re-Login	



• Select Back to the last display.

Without any actions on this system, the login screen will show up.



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6 TP+2	Fiber Port10/100MbpsFa	ist Ethernet Switch	5670 📮 📮	Fiber) 8(Fiber)
 Administrator Authentication 	System Status			-
Configuration System IP Configuration	MAC Address	50:80:17:80:13:F0		
System Status	Number of Ports	8		
 Load default setting Firmware Update 	Comment	Switch		
Reset Device	System Version	IP210SDK2_L2.21_ICPlus_IP178_V5.2.2_6T2F		
 Port Management VLAN Setting QoS Setting 	🗆 Idle Time Security	Idle Time: (1~30 Minutes)		
 Port Security Configuration Backup/ 		Auto Degour(Default). Back to the last display.		
Logout		Update		
	Note:			
	Comment name can only use "a-z",	"A-Z","0-9","_","+","-","=".		
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7 TP+1 Fiber	Port 10/100Mbps Fast E	thernet Switch
Administrator Authentication	System Status	
Configuration System IP Configuration	MAC Address	50:80:17:80:13:F0
 System Status 	Number of Ports	8
 Load default setting Firmware Update 	Comment	Switch
Reset Device	System Version	IP210SDK2_L2.21_ICPlus_IP178_V5.2.2_7T1F
 Port Management VLAN Setting 		Idle Time: (1~30 Minutes)
 QoS Setting Port Security 	🗖 Idle Time Security	C Auto Logout(Default).
Configuration Backup/Recovery		Back to the last display.
Logout		Update
	Note:	
	Comment name can only use "a-	z","A-Z","0-9","_","+","-","=".
	*	

(Note: Comment name only use "a-z","A-Z","0-9","_","+","-","=".)



4. Load default setting

Load Default Setting to EEPROM.



Note: this change only concerns the switch behavior, excluding the change for user name, password and IP configuration.



System Update Successfully! Please Click Reboot to use new setting to login.



5 Firmware update

Enter Password & Reconfirm.

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網址D) @ http://192.168.2.5	15/	·」 @移至 連結 》
8-Por	rt 10/100Mbps Fast Ethernet Switch	678
💛 Administrator	Firm ware Update	1
 Authentication Configuration System IP Configuration 	Notice:Please input the password to continue the Firmware Update process.	
 System Status Load default setting 	ReConfirm	
 Firmware Update Reset Device 	Uppare	
 Port Management VLAN Setting 		
 QoS Setting Port Security 		
Configuration Backup Logout		
🙋 完成		祭網路 //

Click Update button, and then the old web code will be erased.

🚰 Erssing Flash - Microsoft Internet Explorer		[_ [_]_	×
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Erase Flash In Progress (8/128) If this webpage doesn't refresh smoothly, please connect to <u>http://192.168.2.5</u> to continue.				
				~
② 正在開客網頁 http://192.168.2.5/	2 網際網	網路		/



Select the image file(should be ".bin" file) and click UPDATE.



Note: You should use the IP address which you previously set; otherwise the firmware update process cannot be completed.



6、Reset Device

Click "Confirm" to Reboot the Device.



Port Management

1. Port configuration

User can modify the Name、Link Capatility、Duplex and TX,RX ability for each port.

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 Administrator Port Management 	Port	Control	Conf	igurati	on				
 Bandwidth Control Broadcast Storm Control 	Port N	o. Name	9	A	Link Cap to-Nego.(All (Dability Capabilities) 💌	Duplex	Port Tx/Rx Ability	
 Max. Packet Length VLAN Setting 					U	odate			
 QoS Setting Port Security 	Note: F	ort name can o	only use	"a-z","A-z		·,"+","-","=".			
Configuration Backup/Recovery	Deat	blassa		Current Sta	atus		Setting Stat	us	
₽ Logout	Port	Name	Link	Speed	Duplex	Capability	Duplex	Port Tx/Rx Ability	
	1	IC+	•	100Mb	FULL	Auto		enable	
	2	100M-Full	•	100Mb	FULL	Forced 100Mb	FULL	enable	
	3	abc	•	10Mb	FULL	Forced 10Mb	FULL	enable	
	4	100M_Half	٠	100Mb	HALF	Forced 100Mb	HALF	enable	
	5	123456789	•	10Mb	HALF	Forced 10Mb	HALF	enable	
	6	NO==	•	-	-	Auto		disable	
	7		•	-	-	Forced 10Mb	HALF	disable	
	8		٠	100Mb	FULL	Auto		enable	
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6 TP+2 Fiber	Port 1	0/100МБр	sFas	t Ether	net Swi	itch	3 4 5 	6 70=iter) 80	řiber)		
Administrator	Port	Control	Conf	igurati	ion				-		
💛 Port Management											
Port Configuration											
 Bandwidth Control Broadcast Storm 	Port N	lo. Name)		Link Cap	bability	Duplex	Port Tx/Rx Ability			
Control	1 -	1 - Au				Capabilities) 💌	Full 💌	Enable 💌			
 Max. Packet Length VLAN Setting 		Upslate									
QoS Setting		_									
Port Security	Note: F	Port name can (only use	"a-z","A-z	2","0-9","_'	· · + · · · · · · = · .					
VLAN Setting Update OoS Setting Note: Port name can only use "a-Z","A-Z","0-9","_","+",","=". Configuration Backup/Recovery Current Status											
Logout	Port	Name	Link	Speed	Duplex	Capability	Duplex	Port Tx/Rx Ability			
	1	IC+	•	100Mb	FULL	Auto		enable			
	2	100M-Full	٠	100Mb	FULL	Forced 100M	5 FULL	enable			
	3	abc	٠	10Mb	FULL	Forced 10Mb	FULL	enable			
	4	100M_Half	٠	100Mb	HALF	Forced 100M	HALF	enable			
	5	123456789	٠	10Mb	HALF	Forced 10Mb	HALF	enable			
	6	NO==	•	-	-	Forced 10Mb	HALF	disable			
	7						FULL	enable			
	8						FULL	enable			
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Administrator	Port	Control	Conf	igurat	ion			
Port Management				•				
Port Configuration								
Bandwidth Control Broadcast Closes	Port N	lo. Nami	0		Link Cap	pability	Duplex	Port Tx/Rx Ability
Control	1 1			Au	to-Nego.(All C	apabilitits) 💌	Foll	Enable 💌
Max. Packet Length					U	xlate	11	
ALAN Setting	-				1			
Port Security	Note: F	Port name can	only use	"a-z","A-2		·"+"·"-"·"=".		
Configuration Backup/Recovery			1	Current St	atus		Setting Sta	tus
ogout	Port	Name	Link	Speed	Duplex	Capability	Duplex	Port Tx/Rx Ability
	1	IC+	•	100Mb	FULL	Auto		enable
	2	100M-Full		<u></u>	100	Forced 100Mb	FULL	enable
	3	abc				Forced 10Mb	FULL	enable
	4	100M_Half		3000 C		Forced 100Mb	HALF	enable
	5	123456789				Forced 10Mb	HALF	enable
	6	NO==	•			Auto		disable
	7		•	3		Forced 10Mb	FULL	disable
	0	FIRED			1		ELU I	enable

After completing the settings, click update button to take effect. The setting will be reflected at current status window.

2. Bandwidth Control

The range of bandwidth is from 128K to 8M, Full speed.

Example :

Bandwidth	Port1	Port2	Port3	Port4	Port5	Port6	Port7	Port8
Control	128K	256K	512K	1M	2M	4M	8M	Full
setting								

時た(型) (192168.2.1/					
					王の称至
8-Port 10/1	00Mbps Fast Ethernet	Switch	2 3		6 7 0 0
Administrator	Bandwidth Control				
Port Management					
Port Configuration Bandwatte Control	Port No	TX Rate		Ry Rate	
Broadcast Storm Control	1.	Full		Fell -	3
Max Packet Length		Update LoadDefault	1		
VLAN Setting	water and the second second second	and the second second second second	<u>.</u>		la conservation de la conservation
	I I IT THE INTERSPEED OF SELECTED DO	rt is lower than the rate set by i	user this sy	stem will use th	he link speed
QoS Setting	as user's setting.	rt is lower than the rate set by i	user, this sy	/stem will use th	he link speed
QoS Setting Port Security	as user's setting.	It is lower than the rate set by t	user, this sy	/stem will use th	he link speed
QoS Setting Port Security Configuration Backup/Recovery	as user's setting	t is lower than the rate set by i	user, this sy	vstern will use th	he link speed
DoS Setting Port Security Configuration Backup Recovery Logout	as user's setting.	t is lower than the rate set by t	user, this sy	/stem will use the	te
QoS Setting Port Security Configuration Backup Recovery Logout	Port No	TX Rate 128 Kb	user, this sy	rstem will use th Rx Rat 128 Ki	te
Cool Secting Port Security Configuration Backup Recovery Logout	Port No	TX Rate 128 Kb 256 Kb	user, this sy	Rx Rat 128 Ki 256 Ki	te b
QoS Setting Port Security Configuration Backup Researcy Logout	Port No	TX Rate 128 Kb 256 Kb 512 Kb	user, this sy	Rx Rat 128 Ki 256 Ki 512 Ki	te link speed
GoS Setting Port Security Configuration Backop Recovery Logout	If the link speed of selected polasuser's setting	TX Rate 128 Kb 256 Kb 512 Kb 1 Mb	user, this sy	Rx Ra 128 K 256 K 512 K 1 Mb	te link speed b b b
GoS Setting Port Security Configuration Backup Recovery Logout	If the link speed of selected polasuser's selfing.	TX Rate 128 Kb 256 Kb 512 Kb 110 1 Mb 2 Mb	user, this sy	Rx Rat 128 K 256 K 512 K 1 Mb 2 Mb	te ink speed b b b
GoS Setting Port Security Configuration Backup Recovery Logist	If the link speed of selected polasuser's selfing.	TX Rate 128 Kb 256 Kb 512 Kb 1 Mb 2 Mb 4 Mb	user, this sy	Rx Rat 128 K 256 K 512 K 1 Mb 2 Mb 4 Mb	te ink speed b b b
GotS Sorting Port Security Configuration Backup Receivery Logout	If the link speed of selected po as user's setting.	TX Rate 128 Kb 256 Kb 612 Kb 1 Mb 2 Mb 4 Mb 8 Mb	user, this sy	Rx Rat 128 K 256 K 512 K 1 Mb 2 Mb 4 Mb 8 Mb	te link speed b b b

To verify the function of bandwidth control, we use a SmartBit to generate the packet traffic. and the network environment is set as the following.

Equipment

SmartBits : 2000

• Setting

100Mbps, Full duplex, fixed length 60bytes, random data.

The cable connection is depicted as the following figure.

- Cable length
 - 120m

Port 1 transmits packets to Port 8.



Results:

Rate	ТХ	RX
128Kb	16,363(bytes)*8,1024=128K≒ 128K	16,058(bytes)*8,1024=125K≒ 128K
256Kb	31,786(bytes)*8,1024=248K ≒ 256K	31,468(bytes)*8,1024=246K≒ 256K
512Kb	62,066(bytes)*8,1024=485K ≒ 512K	59,985(bytes)*8,1024=469K≒ 512K
1Mb	118,145(bytes)*8,1024=923K ≒1M	123,833(bytes)*8,1024=967K ≒ 1M
2Mb	231,687(bytes)*8,1024=1810M≒ 2M	228,343(bytes)*8,1024=1784K≒ 2M
4Mb	460,178(bytes)*8,1024=3595M≒ 4M	472,520(bytes)*8,1024=3692M≒ 4M
8Mb	947,045(bytes)*8,1024=7399M≒ 8M	925,217(bytes)*8,1024=7228M≒ 8M
Full	9,523,652(bytes)*8,1024=74403M ≒ 80M	9,523,650(bytes)*8,1024=74403M ≒ 80M

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3 Broadcast Storm Control

IP178C, and IP178CH drop the incoming packet if the number of broadcast packet in queue is over the threshold.

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 Port Configuration Bandwidth Control 	ltem					Se	etting		
 Broadcast Storm Control 	Broadcast storm protection					V	Enable		
Max. Packet Length	Update								
VLAN Setting									
QoS Setting									
Port Security									
Configuration Backup/Recovery Learned									
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• Equipment

SmartBits or IXIA

Setting

100Mbps, Full duplex, fixed length 60bytes, random data.

Continuous Mode, Fixed Length 60bytes, Custom Background, Inter-packet Gap 0.96 uSec, source address: 00 00 00 00 00 01, destination address: ff ff ff ff ff

Results:

A、Broadcast Storm Control = **Disable**

🖷 SmartCounters - [Port Cour	iters for 8 ports - (1	untitled)*]							_	
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All Ports		Events	Events	Events	Events	Events	Events	Events	Events	
01 SX-7410		01 SX-7410	02 SX-7410	03 SX-7410	04 SX-7410	05 SX-7410	06 SX-7410	07 SX-7410	08 SX-7410	
02 5X-7410										
04 SX-7410	Tx Frames	1,000	0	0	0	0	0	0	0	
05 SX-7410	Rx Frames	0	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
06 SX-7410	Rx Bytes	0	793,979	793,979	793,979	793,979	793,979	793,979	793,979	
07 5X-7410	Rx Triggers	0	0	0	0	0	0	0	0	
	Collisions	0	0	0	0	0	0	0	0	
	CRC Errors	0	0	0	0	0	0	0	0	
	Alignment Errors	0	0	0	0	0	0	0	0	
	OverSize	0	0	0	0	0	0	0	0	
	Frag/UnderSize	0	0	0	0	0	0	0	0	
										ъĔ
Counters for 8 ports			Events	Only	Detail View	Updating	. E	34		

B、Broadcast Storm Control = Enable

🖷 SmartCounters - [Port Cour	nters for 8 ports - (u	untitled)*]							_	
🖳 <u>File E</u> dit <u>T</u> ree <u>A</u> ction	ıs <u>S</u> election <u>V</u> ie	w F <u>o</u> rmat	<u>W</u> indow <u>H</u>	elp					_	۶×
🖷 😅 🖬 🎜 🎒 👗	🗈 🛍 🗎 🔒	0 00 Þ				0				
All Ports		Events	Events	Events	Events	Events	Events	Events	Events	
01 SX-7410		01 SX-7410	02 SX-7410	03 SX-7410	04 SX-7410	05 SX-7410	06 SX-7410	07 SX-7410	08 SX-7410	
02 5X-7410										
04 SX-7410	Tx Frames	1,000	0	0	0	0	0	0	0	
05 SX-7410	Rx Frames	0	316	316	316	316	316	316	316	
05 SX-7410	Rx Bytes	0	20,224	20,224	20,224	20,224	20,224	20,224	20,224	
08 SX-7410	Rx Triggers	0	0	0	0	0	0	0	0	
	Collisions	0	0	0	0	0	0	0	0	
	CRC Errors	0	0	0	0	0	0	0	0	
	Alignment Errors	0	0	0	0	0	0	0	0	
	OverSize	0	0	0	0	0	0	0	0	
	Frag/UnderSize	0	0	0	0	0	0	0	0	
										ъË
Counters for 8 ports			Events	Only	Detail View	Updating	; [4	34		



4. Max Packet length

Two kinds of max packet length: 1536, 1552 Bytes

A. Packet Length(Bytes): 1536(default)

SmartSwitch Web-Base Controller - Micro	osoft Internet Explorer									- 🗆 🗵
檔案(E) 編輯(E) 檢視(V) 我的最	要(≜) 工具(I) 説明(H)									
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網址D 🙋 http://192.168.2.1/								-	∂移至	連結 »
		1	2	3	4	5	6	7	8	
8-Port 10/1	00Mbps Fast Ethernet Switch									
> Administrator	Max Packet Length									
Poil management Poil Configuration									_	
Bandwidth Control	ltem			Sett	ing					
 Broadcast Storm Control 	Packet Length (Bytes)		© 153	36 (defi	ault) 🤇	1552				
Max. Packet Length		Update								
VLAN Setting										
QoS Setting										
Port Security										
Configuration Backup/Recovery										
- Logout										
 (2) 完成 								3 網際網	陥	

Equipment

SmartBits or IXIA

Setting

Single Burst Mode , Fixed Length 1532 bytes because CRC packets occupy 4 bytes. , Custom Background , Interpacket Gap 0.96uSec , source address: 00 00 00 00 10 , destination address: 00 00 00 00 00 11

Oversize packet length will show up in Oversize row.



B. Packet Length (Bytes): 1552

DinarDotth Web-Base Controller - Ma	count Internet Explorer									
國家的 编辑的 接根的 熟的	B要(3) 工具(1) 説明(3)									12
+1-A - + - Q ⊴ ⊴ 1	Q1944 回 9668章 1978日 3 12-13 11-1								The same	1.00.00.00
朝廷回 (創 1時,/19216821/							1		264	- 10 H
8-Port 10/	100Mbps Fast Ethernet Switch	<u>.</u>	Ó	å	ċ	è	è	é	ů	
Administrator Port Management	Max Packet Length									
Port Configuration Bandwidth Control	tern			Set	ting					
 Broadcast Blorm Control 	Packet Length (Bytes)		C 153	86 (def	ault) (R 1552	2			
Mas. Packet Lengts	U	pdare								
VLAN Setting									12	
 QoS Setting Dect Security 										
Configuration Backun Recovery										
> Loosut										
	4						_		-	
2 元乐								100 100	#510	

- Equipment SmartBits or IXIA
- Setting

Single Burst Mode , Fixed Length 1548 bytes because CRC packets occupy 4 bytes, Custom Background , Interpacket Gap 0.96uSec , source address: 00 00 00 00 10 , destination address: 00 00 00 00 00 11

The length of the Oversize packet will show up in Oversize column.

🖷 SmartCo	anters - [Port C	ounters for	8 ports - (untitled)*]	
🖳 <u>F</u> ile <u>E</u> dir	t <u>T</u> ree <u>A</u> ctions	Selection	<u>V</u> iew F <u>o</u> rm	at <u>W</u> indow	<u>H</u> elp
= 🖻 🔒	🖉 🎒 👗 🖣	a 🛍 🕯	0 00 0 00	▶ ∎ €	∍ ‡ ⊕
Ports		Events	Events	Events	Events
10 SX-7410		10 SX-7410	11 SX-7410	12 SX-7410	13 SX-7410
11 SX-7410 12 SX-7410					
13 SX-7410	Tx Frames	1	0	0	0
14 SX-7410	Rx Frames	0		0	0
15 SX-7410	Rx Bytes	0	1,552	0	0
17 SX-7410	Rx Triggers	0	0	0	0
	Collisions	0		0	0
	CRC Errors	0	0	0	0
	Alianment Errors	0	0	0	0
	OverSize	0	1	0	0
	Frag/UnderSize	0	0	0	0
				_	
Counters for 8	ports			Ev	ents Only

VLAN Setting

$1 \ , \ Multi to 1 Setting$

Enabling Multi to 1 setting will force both Tag Based VLAN and Port Based VLAN function to be ineffective.

Set a specific port as a mirroring destination port. All other ports can transmit and receive packets to the mirroring destination port, but they can't communicate with each other.

#≌(@) [@] http://19216821/ 8-Port 10/1	00Mbps Fast Ethernet Switch	2 3	4 5	6 7 •	● 8 重	建結		
Administrator Port Management VLAN Setting	VLAN Multi to 1 Mode				_			
Multi to 1 Setting Ten Reserved MIAN	um to 1 Setting Destination PortNo sg Based YLAN of Based YLAN Current Setting		01 💌]			
PortBased VLAN	ased VLAN ased VLAN Current Setting Thomas Results		Port:3					
QoS Setting	Update Restore (Re-	store the pre	vious VLAN o	onfiguration)			
Configuration Backup Recovery	2.The original setting of the VLAN Group will be cleared and replaced this function. On the other hand, If you set the VLAN Group again, this special stru- you newest setting.	l by this spe cture will be	cial structure if cleared and re	f you enable placed by	TEAC			

Example:

Set port 3 as the destination port. When port 0~port 7 transmit packets, only port 3 can receive packets.

The testing environment is listed as following.

Equipment

SmartBits or IXIA

• Setting

100M Full , Flow control=ON , Single Burst Mode , Random Length , Random Background , Interpacket Gap 0.96 uSec , source address: 00 00 00 00 00 01 , destination address: ff ff ff ff ff ff

Port 1~port 8 transmit packets in turn and only port 3 can receive packets.

🖷 SmartCou	SmartCounters - [Port Counters for 8 ports - (untitled)*]														
🚟 <u>F</u> ile <u>E</u> dit	<u>T</u> ree <u>A</u> ctions	Selection <u>V</u> i	ew F <u>o</u> rmat	<u>W</u> indow <u>H</u> e	elp				-	₽ ×					
🖷 🛩 🖬 🍐															
I Ports		Events	Events	Events	Events	Events	Events	Events	Events	~					
10 SX-7410		10 SX-7410	11 SX-7410	12 SX-7410	13 SX-7410	14 SX-7410	15 SX-7410	16 SX-7410	17 SX-7410						
11 SX-7410															
13 SX-7410	Tx Frames 100,000 100,000 0 100,000 100,000 100,000														
14 SX-7410	Rx Frames	54,454	54,432	700,000	54,450	54,452	54,452	54,454	54,434						
15 SX-7410	Rx Bytes	3,485,056	3,483,776												
17 SX-7410	Rx Triggers 0 0 700,000 0 0 0 0 0 0														
	Collisions	0	0	0	0	0	0	0	0						
	CRC Errors	0	0	0	0	0	0	0	0						
	Alignment Errors	0	0	0	0	0	0	0	0						
	OverSize	0	0	0	0	0	0	0	0						
	Frag/UnderSize	0	0	0	0	0	0	0	0						
										~					
Counters for 8 ports Events Only Detail View Updating B4															

Port 3 transmits broadcast packets to port 1~port8 (excluding port 3 itself).

🖷 SmartCou	nters - [Port Co	unters for 8	ports - (uni	iitled)*]							
File Edit	<u>T</u> ree <u>A</u> ctions	Selection <u>V</u> i	ew F <u>o</u> rmat	<u>W</u> indow <u>H</u>	elp				-	a ×	
= = .	F 🕹 🐰 🖻		8 80)				
Il Ports		Events	Events	Events	Events	Events	Events	Events	Events	~	
10 SX-7410		10 SX-7410	11 SX-7410	12 SX-7410	13 SX-7410	14 SX-7410	15 SX-7410	16 SX-7410	17 SX-7410	Ē	
12 SX-7410 13 SX-7410	Tx Frames	0	0	100,000	0	0	0	0	0		
14 SX-7410	Rx Frames	100,000	100,000	10,554	100,000	100,000	100,000	100,000	100,000		
15 SX-7410	Rx Bytes	79,057,028	79,057,028	675,456	79,057,028	79,057,028	79,057,028	79,057,028	79,057,028		
17 SX-7410	Rx Triggers	100,000	100,000	0	100,000	100,000	100,000	100,000	100,000		
	Collisions	0	0	0	0	0	0	0	0		
	CRC Errors	0	0	0	0	0	0	0	0		
	Alignment Errors	0	0	0	0	0	0	0	0		
	OverSize	0	0	0	0	0	0	0	0		
	Frag/UnderSize	0	0	0	0	0	0	0	0		
<	<									>	
Counters for 8 p	Counters for 8 ports Events Only Detail View Updating B4										

od-t 四川零点自动化系统有限公司 Sichuan Odot Automation System Co., Ltd

2 、 Tag Based VLAN

If the Tag Based VLAN function is enabled, Multi to 1 setting and Port Based VLAN will be disabled automatically.

A、Set "Add Tag", "Don't Care", "Remove Tag" function for port 1~port 8

Add tag: The outgoing packet should contain a VLAN tag no matter whether there is a VLAN tag received at the source port.

Don't care: The outgoing packet will keep unchanged no matter whether there is a VLAN tag received at the source port.

Remove tag: The VLAN tag of the outgoing packet will be removed no matter whether there is a VLAN tag received at the source port.

電車(① 編輯(② 終現(① 料約) → 上一頁 ・ → ・ ③ ② ③ ③ ③ 開址(② ④ http://192.168.2.1/	美山) 工具(1) (波像 (1) 新約)	RHD 87 (742 3 2	y. 👍 🗷 .						- 245 #			
8-Port 10/1	00Mbps	Fast Ethern	et Switch		à 🕯 🕯	ê î î	3					
Administrator Port Management VLAN Setting Trg Besed VLAN Port Second VLAN Port Second VLAN Port Second VLAN Cost Setting Port Second VLAN Logool	Tag Ba	ased VLAN										
	Tag_Vlan	_Function:	≪Enable ⊂D	isable								
	Tag Mode	Port 1 ⊂ Add Tag ⊂ Don't Care ⊂ Remove Tag	Port 2 C Add Tag Don't Care C Remove Tag	Port 3 C Add Tag Don't Care C Remove Tag	Port 4 C Add Tag @ Don't Care C Remove Tag	Port 5 C Add Tag C Don't Care C Remove Tag	Port 6 C Add Tag Pon't Care Remove Tag	Port 7 C Add Tag T Don't Care Remove Tag	Port 8 C Add Tag C Don't Care C Remove Tag			
	Upbet LosDebuil Note:Please don't add VLAN lag on your control port											

Port	VLAN Tag
1	Don't Care
2	ADD TAG
3	Don't Care
4	Remove TAG
5	Don't Care
6	ADD TAG
7	Don't Care
8	Remove TAG

Example 1:

Port 8 transmits packets with VLAN Tag.

- Equipment
 SmartBits or IXIA
- Setting

Single Burst Mode , Fixed Length 60 bytes , Random Background , Interpacket Gap 0.96uSec , source address: 00 00 00 00 00 28 , destination address: ff ff fff ff ff , packet type 8100 0001

Test result:

Port 1 is set Don't care	Port 2 is set Add tag
Image: Construct Window Port 21 Image: Construct Window Port 21 Else Edit Capture Yew Format Belo Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct Window Port 21 Image: Construct	Corpture - Snart Window Port 22 Ele Edit Capture Yew Format Help Status Length Pream MAC dest Status Length Pream MAC dest MAC asc Wpc date Status Length Pream MAC dest MAC asc Status Length Pream MAC dest MAC asc Value Status Ast A 64 64 30 56 de 58 7 dt 0000 000 000 000 000 0000 000 0000 00
Port 3 is set Don't care	Port 4 is set Remove tag
Capture - Smart Windov Port 23 Ex Ext Capture - Smart Windov Port 24 Ext Ext Capture - Smart Windov Port 24 Ext Capture - Smart Windov Port 24 Status - Length Proceeding - Smart - Sm	Image: Second Print Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image: Second Print Image:
Port 5 IS Set Don't care	Port 6 IS set Add tag
Characterization Construction Construction Else Edit Capters View Construction Mode Mode Mode Status Longotti Precom Mode dest Mode Mode Mode 1 64 64 54 54 66 0000000002000000000000000000000000000	Ease Set Capture View Council Liebe Ease Set Capture View Council Liebe Delta(USec) Status Length Pream MAC dest MAC set Capture View Council Liebe 1 0.0 1.20 64 02 16 99 64 × 100 000 000 27 100 0001 64 3 52.7 639 64 12 24 39 49 49 × 100 100 000 000 27 100 0001 64 4 7.2 946 64 16 71 130 / 230 0000000 000 100 0001 64 100 0001 64 5 432 555 64 44 81 48 56 88 0000 00000 0000 71 100 0001 64 100 0001 64 7 210 247 64 16 49 24 39 24 000 0000 0000 0000 71 100 0001 64 8 64 11 1002 64 19 39 45 22 10000000000000000000000000000000000
Port 7 is set Don't care	
Status Length Pream MAC dest MAC src ype data 1 64 64 656 56 sc be 77 0000000028 8100 0001 a e00055 2 64 64 494 ds 74 b031 0000000028 8100 0001 a e00055 3 64 64 782 0278 b100000028 8100 0001 a e00055 4 64 64 416 74 b031 0000000028 8100 0001 a e2555 5 64 64 170 20278 b130 0000000028 8100 0001 a e2555 6 64 49 16 725 0000000028 8100 0001 a e2555 a e2555 6 64 49 16 725 0278 130 00000000028 8100 0001 a e2555 6 64 49 16 725 2078 10000000028 8100 0001 4 a d5 c 73 7 64 64 16 20 c25 22 40 00000000028 8100 0001 4 a d5 c 73 7 64 64 112 c2 c5 22 40 00000000028 8100 0001 4 a d5 c 73 8 64 64 112 c5 c5 50 000000000028 8100 0001 64 16 20 c2 40 000000000000000000000000000000	

Example 2:

Port 7 transmits packets without VLAN Tag.

SMB setting: Single Burst Mode , Fixed Length 60 bytes , Random Background ,

Interpacket Gap 0.96uSec , source address: 00 00 00 00 00 21 ,

destination address: ff ff ff ff ff

1:05 m:s Image: Random Image: User Units: User VFD1 Setup (MAC dest) VFD2 Setup (MAC source) VFD3 Setup State: Off Image: Static Image: Static Image: Static Image: Static State: Off Image: Static Image: Static<	Mode Ler Single Burst V Count: 1000000	hout 4 byte CRC)	Interpacket <u>G</u> ap Rate: 0.96
VFD_1 Setup (MAC dest) VFD_2 Setup (MAC source) VFD_3 Setup State: Off State: State: State: State: Off Statt: Value: 00 00 00 00 00 21 Value: Offset (bits) Value: Edit Offset (bits) Image: Adjacent to VFD1 Image: Adjacent to VFD1 Image: Adjacent to VFD2 Image: Adjacent to VFD2 Error Generation Image: Enable Image:	1:05 m:s	Handom	
Start: Value: 00 00 00 00 00 21 Value: Edit Offset (bits) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	State: Off	State: Static	State: Off
Offset (bits) Offset (bits) Offset (bits) 0 1 48 1 0 1 Adjacent to VFD1 Adjacent to VFD2 Error Generation Collision # of Packets Length(byt) 1 Alignment Symbol 12 0utput Packet 27 ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ??	Start. Value: 00 00 00 00 00 21	Value: 00 00 00 00 00 21	Value: Edit
Image: Construction of the construc	() ()ffset (bits)	Offset (bits)	Offset (bits)
Error Generation Collision # of Packets Length(byt) CRC Dribble Enable 100 170 12 Alignment Symbol # of Packets: 100 1 12 12 Output Packet ************************************		48 ▲ ✓ ✓ ✓ ✓ ✓ ✓ ✓	0
CRC Dribble Enable 100 170 12 12 Alignment Symbol # of Packets: 100 100 12 12 12 Output Packet 17, 77, 77, 77, 77, 77, 77, 77, 77, 77,	Error Generation	<u>Collision</u>	+ of Packets Length(bytes
Output Packet ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ??	CRC Cribble	# of Packets: 100	
?? ?? ?? ?? ?? ?? ?? 00 00 00 00 00 21 ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ?? ??	Output Packet		
	?? ?? ?? ?? ?? ?? 00 00 00 0	0 00 21 77 77 77 77 77 77 77 77 77 77	רר

Example 2 results:

port0 is set Don't Care	port1 is set ADD TAG
🏥 Capture - SmartWindow Port 21	n Capture - SmarlWindow Port 22
File Edit Capture View Format Help	File Edit Capture View Format Help
- # # # # K × ** □ 0 0 0 • • • • • •	
Delta(uSec) Status Length Pream MAC dest MAC src type date	Delta(uSec) Status Length Pream MAC dest MAC src type data
2 86.3 1059 64 79 74 36 15 50 d0 00 00 00 00 02 7 18 77 04 97 76 1	2 70.2 858 64 98 36 2e 86 30 80 00 00 00 00 27 81 00 00 01 7
3 76.7 939 64 da e7 c0 9e 07 34 00 00 00 00 02 7 cc e7 14 /5 5f ar	3 49.3 596 64 d3 63 83 02 37 38 00 00 00 00 027 81 00 00 00 07 4 105 112 54 59 54 69 50 50 00 00 00 00 27 81 00 00 00 07
4 78.7 963 64 94 96 bit 11 6d c5 00 00 00 00 00 00 27 d0 03 5a 14 p3 d 5 86.4 1060 64 4b 68 cb 9b 71 e2 00 00 00 00 27 24 38 84 3a eb 1	5 1036 1275 64 3d c4 d7 5c 85 c3 00 00 00 00 02 81 00 00 01 3
6 92.5 1137 64 0c 37 8e ae 9c 25 00 00 00 00 02 11 ct 16 6c 80 ft	6 75.8 927 64 ea bd 24 42 67 ca 00 00 00 00 027 81 00 00 01 83
7 39.8 477 64 23 /5 78 45 a5 /1 00 00 00 00 27 b0 ce /5 6a /7 ef	8 32.6 307 64 cc 53 3c 9d d3 0a 00 00 00 02 7 81 00 00 01 9
9 32.7 389 64 78 4f 76 71 7a e2 00 00 00 00 02 7 a0 15 c8 ba ca (9 81 8 1003 54 75 45 95 44 d5 43 00 00 00 00 00 27 81 00 00 01 s3
10 45.9 554 64 2f ca 43 94 be 73 00 00 00 00 02 7 60 f2 0e 81 32 f	10 81.1 594 64 37 ee bl ac 63 ad 00 00 00 00 027 81 00 00 01 a 11 62.3 758 64 6d 60 5a 7c 29 57 00 00 00 00 027 81 00 00 01 3
12 53.6 550 54 dc 17 5d 85 c0 48 00 00 00 00 00 00 27 48 65 d9 5d 7 5 12 60 7 739 54 02 73 40 cd 27 65 00 00 00 00 027 39 63 91 57 6 6	12 53.9 654 64 51 5e 91 a1 ce 5a 00.00 00 00 27 81 00 00 01 a3
13 87.4 1072 64 08 ee e0 57 b3 a8 00 00 00 00 27 2/ 58 /2 dc 8d 6	13 56.8 691 64 /5 c9 4b cd /8 b3 00 00 00 00 027 81 00 00 01 53 14 98.0 1079 54 7c 12 4/ 80 25 02 00 00 00 00 27 81 00 00 01 7a
14 9.3 97 64 26 ca d8 00 76 e4 00 00 00 00 027 86 30 69 fd 13 9	15 77.9 955 64 6c 4d 16 58 08 44 00 00 00 00 00 27 81 00 00 01 k3 V
	CAPTURE OFF
Retrieving Frame 106 of 159 (66%) CAPTURE OFF	
port2 is set Don't Care	port3 is set Remove TAG
Capture - SmartWindow Port 23	Capture - SmartWindow Port 24 File Edit Capture View Format Helm
1 0.0 1320 64 95 67 ee 10 a6 cb 00 00 00 00 27 39 51 50 37 21	1 0.0 480 64 66 83 22 27 18 99 00 00 00 00 00 27 64 91 c6 90 62
2 19.4 222 64 74 c8 a0 48 c4 6a 00 00 00 00 00 27 1d 56 6d 12 26	2 21.5 249 64 37 94 57 5c 87 c2 00 00 00 00 27 99 23 37 42 sc
3 50.9 617 64 df e8 8d bb 60 a3 00 00 00 00 00 27 85 6e e5 eb 62 4 43.2 520 64 gp 75 54 9a p4 99 00 00 00 00 00 27 61 c0 -7 -b c	J 41.0 493 64 of c2 47 13 ae 5a 00 00 00 00 00 27 e8 40 22 /8 cf 4 122 9 1413 64 61 8b as /5 80 40 00 00 00 00 00 27 ref shows of the sh
5 12.8 140 64 bc 79 51 33 35 11 00 00 00 00 27 9F 23 8c 21 5	5 128.5 1500 64 8c e9 4a 77 fc df 00 00 00 00 00 02 7 a3 40 fb 2c 05
6 93.3 1146 64 d7 b1 dd 7b ae b1 00 00 00 00 27 7fe7 ce 3e 97	6 94.6 1163 64 24 1c 1b 1a 06 e1 00 00 00 00 027 9e 00 13 85 M
7 66.3 809 64 db 6e 37 92 ea 5c 00 00 00 00 027 e8 d4 7a b0 25 8 27 9 229 64 as 9e 62 20 /5 16 00 00 00 00 27 29 e4 64 77 65	Λ 73.3 896 64 /7e cb 85 1a 22 9b 00 00 00 00 00 27 75 c1 5b 4c b6 B 26.5 311 64 /41 1a 7 91 /b 57 00 00 00 00 00 27 a 7 /9 /f a 5 /b
9 31.0 367 64 48 d7 da b5 cb ce 00 00 00 00 027 47 d0 eb 42 c	9 75.5 924 64 3d 10 39 06 17 67 00 00 00 00 027 65 16 2d 1c 2
10 75.7 927 64 a8 7i c3 1a 1e fa 00 00 00 00 27 43 2e d6 9b 0	10 95.7 1177 64 c4 ee 12 65 cb 85 00 00 00 00 27 ed 76 82 3d 3ε
11 85.2 1045 64 61 86 22 /e 6d 45 00 00 00 00 00 27 fae ea 4f 31 3a 12 118 6 1391 64 0a 67 d8 c5 cd fc 00 00 00 00 27 5f a9 26 aa ee	11 /583.1 352 64 5a dt dd /7 db 51 00 00 00 00 02 7 10 80 28 it 5e 12 21 4 247 64 4b 41 40 3b 69 1d 00 00 00 00 02 7 be 5b b8 51 kt
13 73.3 897 64 6f 11 7d 4e 83 d4 00 00 00 00 02 7 6f c7 dc 16 3	13 144.5 1069 64 bd 1a 65 87 95 54 00 00 00 00 02 7 15 df 4d 8a 10
14 44.2 533 64 d8 c3 fb fc c2 de 00 00 00 00 27 65 ff 87 a4 0f	14 150.8 1467 64 ca 52 18 /ε 77 1/ 00 00 00 00 27 ba 4ε 99 30 ε
13 113.5 1432 64 59 1d 62 at 72 53 00 00 00 00 27 40 86 ac 15 40 14	13 83.2 1020 64 13 79 66 c1 00 89 00 00 00 00 27 18 03 04 66 €
Save the active file CAPTURE OFF	Copy the selected object(s) CAPTURE OFF
Port4 is set Don't Care	Port5 is set ADD TAG
🖬 Capture - SmartWindow Port 25	🛱 Capture - SmartWindow Port 26
	File Edit Capture View Formai Help
1 0.0 1293 64 c3 07 80 3a 10 1e 00 00 00 00 07 3e c1 d9 98 0	1 00 844 64 57 e3 e0 2d 06 58 00 00 00 00 27 81 00 00 01 4
2 128.8 1442 64 78 d9 7a 39 90 43 00 00 00 00 00 27 82 23 /5 9c 4 <mark>5</mark>	2 24.7 288 64 a5 43 62 4/ 0b 2b 00 00 00 00 00 27 81 00 00 01 q4
3 61.5 /48 64 ct 33 ee 65 8d 3b 00 00 00 00 02 / H eb 41 6f 3p 4 104 3 1294 64 44 29 53 75 07 44 00 00 00 00 02 e4 46 39 81 77	3 95.9 1180 64 86 2b f3 3d 55 d6 00 00 00 00 00 27 81 00 00 01 be
5 90.7 1114 64 77 7d 9e e6 8c bd 00 00 00 00 02 b3 16 8d 74 c	5 21.1 244 64 69 42 11 7d # 83 00 00 00 00 00 00 27 81 00 00 01 41
6 58.9 717 64 86 58 00 4d e5 67 00 00 00 00 27 81 07 bd 7a 0	6 8.1 81 64 59 d0 2e 39 54 68 00 00 00 00 00 27 81 00 00 01 8e
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B、PVID Index Setting

This setting must match VLAN Member setting.

The valid value of PVID index is 1~15.

🚈 SmartSwitch Web-Base Controller - Microsc	oft Internet Explorer									I	<u>- I ×</u>
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8-Port 10/10	0Mbps Fa	st Ethernet Switch	[
Administrator	PVID										
Port Management	Index	PVID Index value is (1~15)									
💀 VLAN Setting		P1 P2 P3 P4 P4									
Multi to 1 Setting	Port/PVID	P5 ¹ P6 ¹ P7 ¹ P8 ¹									
Tag Based VLAN		Submit LoadDefault									
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QoS Setting	VLAN No	VLAN Member									
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Example 1:

Set 9 as the PVID index value of port 5. Port 5 transmits packets without VLAN Tag.

(Length Random , Background Random , DA=Broadcast, SA=05)

The result is that all ports in VLAN Member 9 will receive the packets from port 5.

🖷 SmartCoun	SmartCounters - [Port Counters for 8 ports - (untitled)*]													
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05 SX-7410 07 SX-7410														
08 SX-7410	Tx Frames	0	0	0	0	1,000,000	0	0	0					
10 SX-7410	Rx Frames	1,000,000	1,000,000	0	1,000,000	0	0							
12 SX-7410	Rx Bytes	791,001,747	791,001,747	0	0	0	791,001,747	0	0					
13 SX-7410	Rx Triggers 0 0 0 0 0 0													
	Collisions 0 0 0 0 0 0 0													
	CRC Errors	0	0	0	0	0	0	0	0					
	Alignment Errors	0	0	0	0	0	0	0	0					
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	Frag/UnderSize	0	0	0	0	0	0	0	0					
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Counters for 8	ports			Events Or	dy De	etail View 🛛 🛛	Jpdating	B4		11.				

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Example 2:

Set 9 as the PVID index value of port 1. Port 1 transmits packets with VLAN Tag.

(Length Random , Background Random , DA=Broadcast, SA=01 , Type data=8100 0009) The result is that ports in VLAN Member 9 will receive the packets from port 1. Capture the transmitted packets and know their type data is 8100 0009.

🚮 Smart Wind	low - (untitled)									- D X						
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06 SX-7410			00 0/1	1410	00.07	1410	, 0	1 3/11410	00 3/11410	10 3/(1410	11 3/(1410	12 37 1410	13 3/(1410	-10.05	01.00	00.09	e2 93 17 12 48 61 22
07 SX-7410 08 SX-7410	Ty Frames		1 1	N7 444			0	0	0		1	1 0	0	0.05	01 00	00.03	a 7a 62 79 60 45 1
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11 SX-7410	Bx Bytes	1		0	876.	015.97	74	0		866,287,350	876.030.23	a 0	0	0.05	81 00	00.03	97 97 43 59 01 eb (
12 5X-7410	Rx Triagers	1		0	,		0	0	0	0) (0	0.05	81 00	00.00	5f d8 d4 da bc 0d 4
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	CRC Errors			0			0	0	0	0) () (0	0.05	81 00	00 09	5 05 09 52 da 36 (
	Alignment E	rrors		0			0	0	0	0	1) (0	0 05	81 00	00 09	3f 85 6d 0c eb cc 7
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														0 05	81 00	00 09	42 8c 4a 37 5f cf c₄
													F	0_05	81 00	00.09	2d bala2 a6 88 90 1
Counters for 8	ports							Events O	nly D	etail View	Updating	B4					11.

C、 VLAN Member

IP178C supports 15 sets of VLAN Group. Member ports in the same VLAN Group can transmit and receive packets from each other but non-member ports cannot. Following chart shows VLAN Member setting.

and the second se	Notice and comparison of		1.01.00	1.23						Contract of the	
時社 (12) (記) http://192.168-2.1/			_							いな更し	
8-Port 10/10	OMbps Fa	st Ethe	rnet S	witch			á (i i	ů I	å 🖆	
Administrator	VLAN No		VLA	N Membe	ar						
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Tag Dased VLAN Port Based VLAN		Update	LosiDe	mb							
QoS Setting						VLAN	VLAN Member				
Configuration Backup Recovery	VLAN NO		P1	12	P3	P4	P5	16	17	P8	
Logout	1		v	v	v						
	2				V	v	V				
	3					1	v	V	y		
	4							v	v	v	
	5		v						V	V	
	6		V	V						V.	
	7			v		V		V		V	
	8		v		v		v		V		
	9		٧	v			٧	V			
	10				٧	٧			٧	٧	
	11		v		V			V		V	
	12		-	v		v	v			V	
	13		v			v	V			v	
	14			v	٧			V	V		
	15		12	57	57	57	N.	N.	17		

Example:

- Equipment SmartBits or IXIA
- Setting

Length: Random, Background: Custom , DA=Broadcast, SA=01

Set port 1, port 2, and port 3 in the same VLAN. When port 1 transmits packets, only port 2 and port 3 will receive the packets.



Smart Window	- 01-08.prf						- U ×	Transmit Setup - SmartWindo	w Port 01	×
<u>File Edit Actio</u>	ons <u>O</u> ptions <u>T</u> es	ts Ad <u>m</u> in	<u>V</u> iew <u>H</u> elp					Mode	Length (bytes) Background	Interpacket Gap
Transmit Status Collision Beceive							S A M B G	Single Burst Count: 1000000 1:04 m/s	(without 4 byte CRC) C Fixed 60 C Random	Rate: 0.96 Units: uSec
Cro Error	, , , , , , , , , , , , , , , , , , , ,		00		000	000	2 B	VFD1 Setup (MAC dest)	VFD2 Setup (MAC source)	VFD3 Setup (Protocol)
Mode→ Full Fu Speed→ 100 100 Link→ AN→ AN→ Card Type 7410 741 SmartBits Burst Sta	Full Full <th< th=""><th>ull Full Half 00 100 10 No ANO ANO 410 7410 7410 06 07 08 tart Start Start</th><th>Full Full 100 100 7410 7410 7 10 11</th><th>all Full Full 100 100 100 1410 7410 7410 7 12 13 14</th><th>Full Full Full 100 100 100 2410 7410 7410 15 16 17</th><th>Full Full Full Fi 100 100 K 7410 7410 74 18 19 2</th><th>10 P 10 P 10 #1</th><th>State: Static Start Value: ff ff ff ff ff ff Offset (I</th><th>State: Static Statt Value: 00 00 00 00 00 01 Offset (bits)</th><th>State: Off Value: Edit Offset (bits)</th></th<>	ull Full Half 00 100 10 No ANO ANO 410 7410 7410 06 07 08 tart Start Start	Full Full 100 100 7410 7410 7 10 11	all Full Full 100 100 100 1410 7410 7410 7 12 13 14	Full Full Full 100 100 100 2410 7410 7410 15 16 17	Full Full Full Fi 100 100 K 7410 7410 74 18 19 2	10 P 10 P 10 #1	State: Static Start Value: ff ff ff ff ff ff Offset (I	State: Static Statt Value: 00 00 00 00 00 01 Offset (bits)	State: Off Value: Edit Offset (bits)
len:md,MAC:fffffff	ffff<000000000000000	,0000,	OnLine	IP=192.168.0	08.042 Port=1	6385	//.	0	48	96
SmartCounters	s - [Port Counters fi	or 8 ports - (u	ntitled)*]						Adjacent to VFD1	Adjacent to VFD2
Eile Edit	<u>T</u> ree <u>A</u> ctions <u>S</u> e	lection <u>V</u> iew	∙ F <u>o</u> rmat <u>₩</u> i	ndow <u>H</u> elp			Error Generation	Collision	# of Packets Length(bytes)	
- 🔁 🚔 🚽	i 😂 👗 🖻 🛙	2 🔒 🕹	8 88 ▶ ∎			CRC Dribble	Enable ~			
All Ports		Events	Events	Events	Events	Events	Event	🗌 🗌 Alignment 🔲 Symbo	# of Packets: 100	
01 SX-7410 02 SX-7410 03 SX-7410		01 SX-7410	02 SX-7410	03 SX-7410	04 SX-7410	05 SX-7410	06 SX-74	Output Packet		
04 SX-7410 05 SX-7410	Du Frames	1,000,000	1 000 000	1 000 000	0		0	1		
06 SX-7410	Bx Butes	0	791.024.660	791.024.660	0		0	MII Registers	AN Tx Default	OK Cancel
07 5X-7410 08 5X-7410	Rx Triggers	0	0	0	0		0			
	Collisions	0	0	0	0		0	0 0 0		
	CRC Errors	0	0	0	0		0	0 0 0		
	Alignment Errors	0	0	0	0		0	0 0 0		
	OverSize	0	0	0	0		0	0 0 0		
	Frag/UnderSize	0	0	0	0		0	0 0 0	_	
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Counters for 6 hor	115			Procurs Outh	Dem	1 1 10 W	namis	104		

3 、 Port Based VLAN

If the port Based VLAN function is enabled, Multi to 1 setting and tag Based VLAN will be disabled automatically.

Set VLAN Member for port 1~port 8.

8-Port 10/1	00Mbps Fas	t Ethern	et Swit	ch	1	ı 📮	3	4	5	6	7	C	
lministrator ort Management	Port Based	I VLAN											
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Tag Based VLAN Port Based VLAN	1 I	Port Port	1 Port 2 5 Port 0	2 IZ Port 3 5 IZ Port 3	Port 4	य य							
of Setting		Upd	ate Los	dDefault									
Port Socurity Configuration Backup/Recovery .ogout		Port VLAN Member											
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	2		v	V	V								
	3			v	v	٧						1	
	4		1	() 	v	V	1	V		1		1	
(Ja	5					٧	1	V	V			1	
	6						1	V	V		v		
	7						1	V	v		v	1	
	8	v	v								v	1	

Example:

Set port 1, port 2, and port 3 in the same VLAN. When port 1 transmits broadcast packets, only port 2 and port 3 will receive the packets.

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23 SX-7410	Ty Erames	13.0	58	0	0	0	-	0	0	0	0	
25 SX-7410	Rx Frames	1,3	71 13,	058	13,058	0		0	0	Ů	Ő	
26 SX-7410	Rx Bytes	87,7	44 10,262,	807 :	10,262,807	0		0	0	0	0	
28 SX-7410	Rx Triggers	2	0	0	0	0		0	0	0	0	
	Collisions	-	0	0	0	0		0	0	0	0	
	CRC Errors		0	0	0	0		0	0	0	0	
	Alignment En	or	0	0	0	0		0	0	0	0	
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QoS Setting

1 、 Class of Service Configuration

High priority is a special channel, which can make important packets pass through quickly. To set a packet to high priority, the user should select the its port number or VLAN Tag/IP/DS.

Example:

Select port 1 as the high priority. This means all packets coming from port 1 will be treated as high priority.



2 . High Priority Queue Configuration

The setting in High Priority Queue Configuration must be in conjunction with Class of Service Configuration by selecting VLAN Tag/IP/DS. Weight-Round-Robin Mode sets packets forwarding ratio of High priority to Low priority. The ratio is 4:1 or 8:1.

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VLAN Setting	-								
QoS Setting	Weight-Roun	d-Robin Low weight							
Configuration	Mode								
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Port Security									
Configuration Backup/Recovery									
> Logout									
前天成							-	14	

Example:

Set port 5 and port 6 transmit packets to port 7.

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Receive, Cro Error	0	0	0	0				0		0	0	0	0			G
Mode + Speed + Link-+	Half 10	Half 10	Half 10	Half 10	Full 100 ANO	Full 100 ANO	Full 100 AN	Ful 100 AN	F		Full 100 ANO	Full 100 ANO	Full 100 ANO			0 U P
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Continuo	us								n	0	hLin	e IP	=192	2.168.008.045	Port=16385	T =0.00
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05 SX 06 SX 07 SX 08 SX 10 SX 11 SX	<-741 <-741 <-741 <-741 <-741 <-741	0 0 0 0 0 7 0 7	Tx Fra Rx Fra	ames		- F	Rates 5X-74 12,:	334 433	Rate 06 SX-7 3	,088 383	07	Rate SX-7	° 2410 0 ,405	Bates 08 SX-7410 0 0	Tile Horizont 10 SX-7410 0 0	al Rates 11 SX-74
05 SX 06 SX 07 SX 08 SX 10 SX 11 SX 12 SX	<-741 <-741 <-741 <-741 <-741 <-741 <-741		Tx Fra Rx Fra Rx By	ames ames tes		605 S	Rates 5X-74 12,2 27,3	334 433 717	8 00 Rate 06 SX-7 3 24	,088 ,088 ,383 ,513	07	Rate SX-7 15,	× 410 0,405 ,917	Bates 08 SX-7410 0 0 0 0 0	Tile Horizont 10 SX-7410 0 0	al Rates ▲ 11 SX-74_
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- Equipment
 SmartBits or IXIA
- Setting Continuous Mode, Random Length, Custom Background, Interpacket Gap 0.96uSec, SA=05, DA=07

Capture port 7 packet data and check MAC src column. Find that the ratio of port 5 (High Priority) and port 6 (Low Priority) is 4:1.

🚮 Ca	pture - SmartWindow Po	ort 07						
<u>F</u> ile	<u>E</u> dit <u>C</u> apture <u>V</u> iew	Forma <u>t</u> <u>H</u> elp						
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5	81.5	1000	64	00 00 00	00 00 07	00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
6	11.7	126	64	00 00 00	00 00 07	00 00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
7	58.8	715	64	00 00 00	00 00 07	00 00 00 00 00 05	00 🗐	eo 🗗 00 00 00 00 00 00 00 00 00 00
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9	65.6	801	64	00 00 00	00 <mark>00 07</mark>	00 00 00 00 00 06	6f be	11 e6 c1 4b 83 e8 23 80 c8 35 66
10	59.7	726	64	00 00 00	00 00 07	00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
11	49.6	600	64	00 00 00	00 00 07	00 00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
12	25.6	300	64	00 00 00	00 00 07	00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
13	100.2	1232	64	00 00 00	00 00 07	00 00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
14	29.8	353	64	00 00 00	00 00 07	00 00 00 00 00 06	96 9f	75 5d 71 84 30 7d bf 03 ac 05 91
15	11.4	123	64	00 00 00	00 00 07	00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
16	87.9	1079	64	00 00 00	00 00 07	00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
17	69.2	845	64	00 00 00	00 00 07	00 00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
18	44.5	536	64	00 00 00	00 00 07	00 00 00 00 00 05	00 00	00 00 00 00 00 00 00 00 00 00 00 00
19	28.1	331	64	00 00 00	00 00 07	00 00 00 00 00 06	22 cd	e8 21 f1 c8 07 ec ec a0 71 e1 8a 4
20	1 120	142	C A	00 00 00	00 00 07	00.00.00.00.00.05	00.00	
					C.	APTURE OFF		

Capture port 7 packets and check MAC src column. Find that the ratio of port 5 (High Priority) and port 6 (Low Priority) is 8:1.

🚮 Cap	ture - SmartWindo	w Port 07							_	미꼬
<u>F</u> ile]	<u>E</u> dit <u>C</u> apture <u>V</u> :	iew Form	a <u>t H</u> elp							
R 12	i 🕘 i 🖻	🖴 🗙	8∞ 🗈	I	1		0			
	Delta(uSec)	Status	Length	Pream	MAC de	st	MAC src	type	data	
11	109.1		1344	64	00 00 00 0	0 00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
12	10.0		105	64	00 00 00 0	0 00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 (
13	68.2		833	64	00 00 00 0	0 00 07	00 00 00 00 00 0	6 c9 9a	66 a0 94 b2 b2 bf d8 58 dd 34 3	ld 2
14	37.4		447	64	00 00 00 0	00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
15	74.4		910	64	00 00 00 0	00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
16	62.8		765	64	00 00 00 0	00 07	00 00 00 00 00 0	5 00 02	00 00 00 00 00 00 00 00 00 00 00 00	00 C
17	116.9		1442	64	00 00 00 0	00 07	00 00 00 00 00 0	5 00 😈	00 00 00 00 00 00 00 00 00 00 00	00 C
18	54.4		660	64	00 00 00 0	00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
19	104.6		1287	64	00 00 00 0	00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
20	78.8		966	64	00 00 00 0	00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
21	58.1		706	64	00 00 00 0	00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
22	33.5		398	64	00 00 00 0	00 07	00 00 00 00 00 0	5 90 ee	3f 4e 6b 94 3e 67 37 b0 7e 7c 0	12.7
23	50.7		614	64	00 00 00 0	0 00 07	00 00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
24	62.2		758	64	00 00 00 0	0 00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
25	57.1		694	64	00 00 00 0	0 00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 C
26	57.7		701	64	00 00 00 0	0 00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	<u>) 00</u>
27	111.4		1373	64	00 00 00 0	0 00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	DO C
28	113.4		1397	64	00 00 00 0	0 00 07	00 00 00 00 00 0	5 00 00	00 00 00 00 00 00 00 00 00 00 00	00 (🖵
.∎ÎÎ								- '	·	Ŀ
						C.	APTURE OFF			1.

3、Customization DiffServ

The setting in Customization DiffServe is associated with Class of Service Configuration by selecting VLAN Tag/IP/DS.

Example:

Select the pre-defined VLAN Tag/IP/DS coming from port 1 as the high priority.

SmartSwitch Web-Base Controller - Micr 檔案(P) 編輯(E) 板硯(V) 我的最	osoft Internet Explorer 菱(鱼) 工具(I) 説明(H)									
〜上一頁 → → → ② ② △ ③ 網址① ⑧ http://192.168.2.1/	建建 函裁的最爱 ③ 媒體 🍏 💁 - 🤅	∍ ₩ •						•	<i>€</i> 移至	連結 »
8-Port 10/1	00Mbps Fast Ethernet	Swite	:h		1 2	2 3	4	5 6	7	8
Administrator Port Management Management	Class of Service Co	nfigu	ıratio	n						
OoS Setting Class of Service Configuration	Mode\Port	1	2	3	4	5	6	7	8	
 High Priority Queue Configuration Customization 	VLAN Tag/IP/DS	- -								_
Diffserv Port Security Configuration Backup/Recovery	Note:			Jpdate						
▶ Logout	☞means Enable High Priority When both PortBase mode and VL <i>4</i> high priority .	AN Tag/I	P/DS mo	de are cho	osen, pack	ets of VL	AN Tag	g/IP/DS mod	e have	

There are a 6-bit field in DiffServe, representing 64 possible combinations.

Administrator Port Management	Cu	stom	nizat	ion l	Diffs	erv										
/LAN Setting																
Class of Service Configuration		Index			00 🗸]			Enab	e				Disable)	
High Priority Queue Configuration	V: E	nable, -	: Disal	ole							-		-			
Customization Diffserv	0	(100)	8	()	16	(****)	24		32	_	40	/	48	V	56	V
ort Security	1	1.00000	9	1.000	17	1	25	8.000	33	1	41		49		57	
nfiguration Backup/Recovery	2	10000	10	V	18	V	26	V	34	V	42		50	<u></u>	58	
gout	3	2000	11		19		27	10000	35		43		51		59	
	4	5 <u>000</u> 8	12	100000	20	1 <u>1111</u> 1	28	1	36		44		52		60	1
	5	11221	13	10000	21	10000	29		37		45		53		61	
	6	0.0000	14	100000	22	9 <u>000</u> 9	30		38	\ \	46	V	54		62	1>
	7	()	15	()	23	()	31		39	1	47		55		63	24
	1. 2.I	If the va one of t Default	due/nur he abov enabled	nber of 'e enabl Index =	the Diff ed inde: = 10, 18	Seve fie xes, this , 26, 34	ld of an IP fame , 46, 48	IPV4 fr will be & 56.	ame or process	traffic c ed by th	lass field ne CoS f	l of an I unction	IPV6 fra of this	me is eq system.	ual to	Y

- Equipment
 SmartBits or IXIA
- Setting Continuous Mode, Random Length, Custom Background, Interpacket Gap 0.96uSec, SA=10, DA=12

I. IPv4 DiffServ

Reference IPv4/IPv6 DiffServ frame format, and then the value is 0100 0000 0000 1100 (2Byte). Therefore, 0800 400C (4 Byte) is the content of IPv4.

EEPROM DiffSe	rv value(DSCP)	TYPE	VER(0100)+Header size	DiffServ+RES
Decimal	Binary	Hexadecimal	Hexadecimal	Hexadecimal
3	000011	08 00	40	0C

m	Fra	ıme	Ed	itor	- Sm	art¥	linde	ow P	ort	10									X
<u>F</u> ile	Ē	<u>I</u> dit	∐i	ew	Optio	on l	Proto	col	<u>H</u> elp										
2			Ē)	8	E		1		E)									
000)0:		00	00	00	00	00	12	00	00	00	00	00	10	08	00	40	ØC	^
001	6:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
003	32:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	_
001	18 :		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
006	64:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
008	80:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	~
Fran	ne E	Edito	or										Cu	stom		F	Byte: "	79	

II. IPv6 DiffServ

Reference IPv4/IPv6 DiffServ frame format, and then the value is 0110 0000 1100 0000 (2Byte). Therefore, 86DD 60C0 (4 Byte) is the content of IPv6.

EEPROM Di	ffServ value	TYPE	VER(0110)+TC[7:4]	TC[3:2]+RES+0000
Decimal	Binary	Hexadecimal	Hexac	lecimal
3	000011	86 DD	60	C0
🔟 Frame Editor	r - SmartWindow Port 1	.0		
<u>File E</u> dit <u>V</u> iew	Option Protocol Help			
🛩 🖬 🖻 🛍	L 🛛 🖉 🗸 🖄 🛛 🖸			
0000: 00 00	0 00 00 00 12 00	00 00 00 00 10 <mark>8</mark> 6	DD 60 CO 🔨	
0016: 00 00	00 00 00 00 00 00	00 00 00 00 00 00	99 99 99	
0032: 00 00	00 00 00 00 00 00	00 00 00 00 00 00	99 99 99	
0048: 00 00	00 00 00 00 00 00	00 00 00 00 00 00	99 99 99	
0064: 00 00	00 00 00 00 00	00 00 00 00 00 00	00 00 00	
0080: 00 00	00 00 00 00 00	00 00 00 00 00 00	99 99 99 🔽	
Frame Editor		Custom	Byte: 16	



Left frame (in red) shows that WRR is 4:1. Right frame (in blue) shows the content of IPv4.

🚮 Caj	pture - SmartWindow	Port 12						×
<u>F</u> ile <u>F</u>	dit <u>C</u> apture <u>V</u> iew Fo	nma <u>t H</u> elp						
日留	i 🕘 X 🖻 🛍 1	X 🐜 📼	J 🔜		0			
	Delta(uSec) Statu	s Length	Pream	MAC dest	MAC src	type	data	^
1	0.0	901	64	00 00 00 00 00 00 12	00 00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
2	67.6	826	64	00 00 00 00 00 12	00 00 00 00 00 00 11	08 00	40 00 07 f2 00 00 00 00 40 72 57 9b	C
3	46.8	565	64	00 00 00 00 00 12	00 00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
4	115.1	1418	64	00 00 00 00 00 12	00 00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
5	64.3	784	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
6	15.7	177	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
7	57.1	693	64	00 00 00 00 00 12	00 00 00 00 00 11	08 00	40 00 07 f2 00 00 00 00 40 72 57 9b	C
8	44.3	534	64	00 00 00 00 00 12	00 00 00 00 00 00 10	08 00	40 0c 07 2 00 00 00 00 40 72 55 1b	C
9	47.7	576	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 2 00 00 00 00 40 72 55 1b	C
10	12.8	140	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 2 00 00 00 00 40 72 55 1b	C
11	108.9	1342	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 2 00 00 00 00 40 72 55 1b	C
12	117.7	1451	64	00 00 00 00 00 12	00 00 00 00 00 11	08 00	40 00 07 2 00 00 00 00 40 72 57 9b	C
13	66.4	810	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
14	57.5	699	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
15	70.9	867	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
16	71.9	878	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
17	69.4	848	64	00 00 00 00 00 12	00 00 00 00 00 00 11	08 00	40 00 07 f2 00 00 00 00 40 72 57 9b	C
18	65.8	802	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
19	64.5	787	64	00 00 00 00 00 12	00 00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
20	68.6	837	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
21	44.6	538	64	00 00 00 00 00 12	00 00 00 00 00 10	08 00	40 0c 07 f2 00 00 00 00 40 72 55 1b	C
22	25.1	294	64	00 00 00 00 00 12	00 00 00 00 00 00 11	08 00	40 00 07 f2 00 00 00 00 40 72 57 9b	C 🗸
<							>	
Retrievi	ng Frame 57 of 169 (33%))		C.	APTURE OFF			

Left frame (in red) shows that WRR is 4:1. Right frame (in blue) shows the content of IPv6.

🚮 Ca	pture - SmartW	indow Port	12						\mathbf{X}
<u>F</u> ile <u>I</u>	<u>E</u> dit <u>C</u> apture <u>V</u> :	iew Formaț	<u>t H</u> elp						
口徑	3 🚑 X 🗈		÷	. 📾	P	A			
	Delte(uSec)	Statue	ongth	Droom		MAC ere	typo	dete	
1			152	64	00.00.00.00.00.12	00.00.00.00.00.10	ae 99	60 c0 07 (2 00 00 00 00 40 72 55 1)	
2	38.2		458	64	00 00 00 00 00 00 12		08.00	60 00 07 12 00 00 00 00 40 72 53 10 60 00 07 12 00 00 00 00 40 72 57 91	10 0
3	14.3		158	64	00 00 00 00 00 00 12		86 dd	60 c0 07 f2 00 00 00 00 40 72 57 31	iii iii
4	61.9		754	64	00 00 00 00 00 00 12		86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1t	Ω Ω
5	61.3		746	64	00 00 00 00 00 12	00 00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b	5 C
6	56.3		684	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1E	5 C
7	64.7		789	64	00 00 00 00 00 12	00 00 00 00 00 00 11	08 00	60 00 07 f2 00 00 00 00 40 72 57 9b	эC
8	88.9		1091	64	00 00 00 00 00 12	00 00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b	οC
9	77.8		953	64	00 00 00 00 00 12	00 00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b	эC
10	46.6		563	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b	ΣC
11	81.3		996	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b	οC
12	110.5		1361	64	00 00 00 00 00 12	00 00 00 00 00 11	08 00	60 00 07 f2 00 00 00 00 40 72 57 9b	βC
13	104.6		1288	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b) (
14	21.9		254	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b) C
15	62.5		761	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b) (
16	34.4		410	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b) C
17	42.6		513	64	00 00 00 00 00 12	00 00 00 00 00 11	08 00	60 00 07 f2 00 00 00 00 40 72 57 9b) C
18	53.3		646	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b) C
19	52.4		635	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b) C
20	83.8		1028	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b) C
21	89.7		1101	64	00 00 00 00 00 12	00 00 00 00 00 10	86 dd	60 c0 07 f2 00 00 00 00 40 72 55 1b) C
22	31.0		368	64	00 00 00 00 00 12	00 00 00 00 00 11	08 00	60 00 07 f2 00 00 00 00 40 72 57 9b) C 🗸
									>
					C.	APTURE OFF			1

Port Security

Enabling this function will disable the Tx ability and Rx ability.

Note: Please don't enable port security on the port which is connected to your web management PC.

Example: Enable port 1 and port 2.

網址@ 👌 http://192.168.2.1/										-	合称至	速越 ×
8-Port 10/1	00Mbps Fas	t Etherr	iet Swit	:ch		2	3	4	5	6	7	8
Administrator Port Management VLAN Setting	Port Secu	rity										
QoS Setting Port Security	Port	1	2	3	4	5	Т	6	7		8	1
Configuration Backup Recovery	Enable	5	9									1
> Logout				L	pdate							
	After power on re MAC address ". A security port or Note: Please don'	set, each po ily allows th t enable port	rt will record at packet wh security on	d the first re nich has the your Cont	eceiving pac • " Security ! rol port.	ket's sour	ce MA ress " 1	C addr	ess as a	" Sect	urity	

Use the test equipment to do Ring test. Check whether port 1 and port 2 can receive packets.

🖬 s	mart	Win	lov	/ - 1	0-17	/.prf																	×			
File	<u>E</u> dit	<u>A</u> c	tion	s O	ption	ns <u>I</u>	ests	Adn	nin	⊻iew	<u>H</u> e	lp														
T <u>rans</u> State	mit		0			0	0		0		٥	٠	٠	٥	٠	٠	٥	٠		0		S	^			
Trigg	jer					0	0		0		٠			٠	٥	٠	٠	٥		0		B				
Rece	ive					0	0		0		٠					٠	•			0	0	G				
Mod	d → H	laif H	lalf	Half	Half	Half	Half	Half	Half	1		Full		Full	Full	Full	Full	Full	Full	Half	Half	Ö				
Lir Card 1	nk→ ſype 7	410 7	410	7410	7410	7410	7410	7410	7410		ANO 7410	ANO 7410	AN® 7410	ANG 7410	AN. 7410	AN. 7410	AN. 7410	ANO 7410	7410	7710	7710	P				
Smart	80 4	01	02	03	04	05	06	07	08		10	11	12	13	14	15	16	17	18	19	20	#1				
										1	1	60 0	60 9	6top	60 0	600	600	600				6top	~			
Trans	-en.ik											InLin	e IP	=193	2.168	.008.	i 042 F	Port=1	6385	5		-				
12.0	morti	Conv	tor	o - 1	Dort	Cor	tor			orto	1											_				
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E F	सीठ ।	Fdit -	Tre	10 J	1 chio:		tooloof.		Wiew	- Eos	met				[e]n											7 ×
	jile j ⊒t∎	Edit	Tre Z	e 1 Sal	Actio:	ns j	Select	ion A	<u>V</u> iew	/ Fo:	rmat	<u>W</u> :	indov	/ E	(elp	4	F .			A						7 ×
Porte	jile j 🍰 🖡	Edit	In ≩ €	ee ↓ ∰	Actio:	ns i	Select C	ion 8	<u>V</u> iew	/ For 8 88	rmat		indov IIIE		[elp ① [⊕	٩.			Ø	10	0	atao		Pater	
Ports	ile] ≇ [Edit	In E	ee 1	Actio:	ns }	Rate D SX-	ion 🔒 es 7410	<u>V</u> iew	7 For 8 88 Rates 5X-741	mat 	Ba 2 SX	indov tes -741(/ ∐ ➡ D 13	[elp [] [Rate SX-7	€ s '410	В В	ates	0 15	Bate SX-1	es 7410	R 16 S	ates X-74	10	Rates 17 SX-7410	
Ports 10 9 12 9	∰e] 2 [X-74] X-74] X-74] X-74]	Edit	In E	ee ↓ ∰	A.ctio:	ns 5	Select Rate D SX-	ion 🔒 es 7410	<u>V</u> iew 	/ Fo: 8 88 Rates 6X-741	rmat	W: Ra 2 SX	indov E Es 7410	/ ∐ ↔	[elp [1] [Rate SX-7	₽ s '410	В 14 S	ates <-741	0 15	Bate SX-3	es 7410	R 16 S	ates X-74	10	Rates 17 SX-7410	
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Ports 10 9 11 9 12 9 13 9 14 9 15 9	ile] → [×-74 ×-74 ×-74 ×-74 ×-74 ×-74	Edit	In R Ix Fi Rx F Rx F	rame	A_ctio:	ns :	Elect Rate 0 SX-1 15 15 2 190	ion es 7410 i,461 i,479	<u>V</u> iew : : 11 9	Fo: 8 88 Rates 6X-741	0 1	₩ Ra 2 SX	indov tes -7410 5,411 ([elp E [Rate SX-7 15, 2191	€ 8 410 473 473 803	R. 14 S)	ates <-741 15,41 15,47 90 35	0 15 1 5 2 13	Bate 5 SX-5 15 15 2 191	es 7410 ,485 ,404	R 16 S	ates X-74 15,4 15,4	10 53 84	Rates 17 SX-7410 15,397 15,451 12 190 779	
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Configuration Backup/Recovery

This function can save the switch configuration on your computer or restore the switch configuration by uploading the ".bin" file which is previously save on your computer.

Follow the following steps to verify.

Step 1、Set port 1=Forced 100Mb FULL, port 2=Forced 10Mb FULL. Then plug power cord and enter the same web page for ensuring the new setting take effect.

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8-Port 10/	100Mbj	os Fa	st Eth	ernet S	witch	<u></u>		
Administrator	Port	Cont	OI C	onfigu	ration			
Port Management								
 Port Configuration Bandwidth Control 	Port No		Name		Link	Capability	Duplex	Port Tx/Rx Ability
 Broadcast Storm Control 	1 -	C			Anto-Nego.((All Capabilities) 💌	Full 💌	Enable 💌
Max Packet Length AN Setting						Update		
oos Setting	Note P	ort name	can onl	y use "a-z"	"A-Z","0-9"	,,**,**,*=*.		
Configuration Backup/Recovery				Current St	atus		Setting Stat	US
Logout	Port	Name	Link	Speed	Duplex	Capability	Duplex	Port Tx/Rx Ability
	1	IC+	٠	100Mb	FULL	Forced 100Mb	FULL	enable
	2		•	10Mb	FULL	Forced 10Mb	FULL	enable
	3		•	100Mb	FULL	Auto		enable
			٠	100Mb	FULL	Auto	-	enable
	4				E181	Auto		enable
	4		•	100Mb	FULL			
	4 5 6		•	100Mb 100Mb	FULL	Auto		enable
	4 5 6 7		•	100Mb 100Mb 100Mb	FULL	Auto Auto		enable enable

Step 2、Enter Configuration Backup/Recovery web page, and then choose Download in Backup(Switch->PC) column for saving this setting.

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8-Port 10.	/100Mbps Fast	Ethernet Switch	Ļ	2	3	4	5	6	7	8
Administrator Port Management	Configuration E	ackup/Recovery								
VLAN Setting QoS Setting	Backup(Switch-	+PC)								
Port Security Configuration Backup/Recovery	Please check "Do	wnload" to download EEI	PROM contents	Downk	od					
Logout										
	Recovery(PC→	Switch)								
	Select the image f	ile :		100						
	Recoverd [Update		1913	6					
	- assirate						1			



Step 3、	Save the	setting	and the	file	name is x.bin
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檔案下載		2	×I
?	有些檔案可能傷害類 疑,或您不完全信(您的電腦,如果下列檔案資訊看起來可 壬其來源,諸不要開啓或儲存這個檔案。	
	檔名: dow 檔案類 BIN 從: 192	n.bin 檔案 168.2.1	
	您要將檔案開啓或(諸存到您的電腦嗎?	
	開啓②	存檔案(3) 取消 其他資訊(M)	
	☑ 遇到這種檔案時	必須事先警告(₩)	

Step 4、 Choose the image file, enter password, and click Update shown in Recovery(PC->Switch) column for reading EEPROM.

🏄 SmartSwitch Web-Base Controller - Micro	soft Internet Explorer								<u>- 🗆 ×</u>	
檔案(F) 編輯(E) 檢視(Y) 我的最多	₹ <a>▲) 工具(1) 説明⊞)									
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8-Port 10/1	00Mbps Fast Ethernet Switch	1	2	3	4	5 💶	6 []	7	8	
 Administrator Port Management 	Configuration Backup/Recovery					_				
 VLAN Setting QoS Setting 	Backup(Switch→PC)									
 Port Security Configuration Backup/Recovery 	Please check "Download" to download EEPROM cont	ents.	Downlos	ud						
> Logout	Recoverv(PC→Switch)					7			-	Select the image file
	Select the image file : PM研究區研行)Cherdydown.bin Password: ******)))))							Enter password
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🖉 SmartSwitch Web-Base Controller - Micro	soft Internet Explorer					ļ	<u>- ×</u>
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	1 2	3	4	5	6	7	8
8-Port 10/1	00Mbps Fast Ethernet Switch 📮 🛡						
Administrator							
Port Management	Undate						
> VI AN Setting	Successfully!						
P OoS Setting	-						
Port Security	Please Click "Rehoot" to use new setting to	ologin					
Configuration Backup/Recovery	Hease Click Kebbol to use new setting it	ologin					
Logout	Reboot						
/ () 完成	I				網際網	格	.//

Step 5、Click Reboot to use new setting to login.

Step 6. Enter following web page and confirm whether this new setting takes effect.

🚈 SmartSwitch Web-Base Controller - Mici	rosoft Interne	t Explorer							<u> </u>
檔案(F) 編輯(E) 檢視(V) 我的最	愛(点) 工具	具① 説明	(H)						1
←上—頁 • → - ⑧ 创 岱 ◎)捜尋 🔊	我的最愛	③媒體	3 4. 2) 🖬 🗏 🛍				
網址① 🕘 http://192.168.2.1/									至 連結 >>
8-Port 10/1	00Mb	ps Fa	st Etł	iernet \$	Switch	1 []	23	4 5 6 7 📮 📮 📮 📮	8
Administrator	Port	Cont	rol Co	onfigu	ration				1
Port Configuration									
 Bandwidth Control Broadcast Storm 	Port N	0.	Name		Link	Capability	Duplex	Port Tx/Rx Ability	
Control Max. Packet Length	1 -				Auto-Nego.	(All Capabilities) 💌	Full 💌	Enable 💌	
VLAN Setting						Update			
QoS Setting	Note F	Portiname	can onl	vuse "a-7'	"A-7" "0-9	··· ···+···_··=·			
Port Security Configuration Declam Decarport				,	,				
Configuration Backup/Recovery Longet	Port	Namo		Current St	atus		Setting Sta	itus	
r Logoal		TNGITTE	Link	Speed	Duplex	Capability	Duplex	Port Tx/Rx Ability	
	1	IC+	•	100Mb	FULL	Forced 100Mb	FULL	enable	
	2		•	10Mb	FULL	Forced 10Mb	FULL	enable	
	3		•	100Mb	FULL	Auto		enable	
	4		•	100Mb	FULL	Auto		enable	
	5		•	100Mb	FULL	Auto		enable	
	6		٠	100Mb	FULL	Auto		enable	
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	8		•	100Mb	FULL	Auto		enable	_1
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Logout

Choose Logout



Exit web page will appear for further confirmation.

Click YES will leave this system. Click NO will back to this system.

🚈 http://192.168.2.1./logout.htm - Microsoft Internet Explorer 📃 📃	×
檔案 (P) 編輯 (E) 檢視 (Y) 我的最愛 (A) 工具 (I) 說明 (H)	ł
←上一頁 • → • ③ ④ 凸 ◎ 搜尋 函我的最爱 ⑨媒體 ③ ▶• → ◎ ◎ • ■ 創	2
網址① @ http://192.168.2.1/logout.htm	»
	*
Exit	
Are you sure?	
Yes No	
	-
🔊 完成	11

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Appendix

Use Hyper Terminal to monitor the status of the switch.

Step 1: Set the COM port as the figure shown below.

M1 Properties		?
Port Settings		
<u>B</u> its per second:	19200	
<u>D</u> ata bits:	8	
<u>P</u> arity:	None	
<u>S</u> top bits:	1 🗸	
<u>F</u> low control:	None	
	<u>R</u> estore Defau	lts
	K Cancel A	pply.

Sten	2.1100	Hyper ⁻	Terminal to	check	₩eh	Code	Version.	V2	21
Siep	2.030	пурег	i eminar io	CHECK	VV CD	Coue		V Z.,	Z I

檔案(E) 編輯(E) 檢視(V) 呼叫(C) 轉送(I) 說明(H)	
0 IP210 Firmware Update V2.11 SST39VLF040 Checking MagicCode Checking Flash FlashBank-0(be) FlashBank-1(86) FlashBank-2(cc) FlashBank-2(cc) FlashBank-2(dc) FlashBank-4(11) FlashBank-5(dc) FlashBank-6(47) FlashBank-7(b6) FlashCheck 0K!	
MAC Address : 50.80.17.80.13.f0 IP Address : 192.168.2.1 Subnet Mask : 255.255.255.0 Gateway Address: 192.168.2.254 WebCodeVersion : V2.21 WebPageVersion : IP210SDK2_L2.21_ICPlus_IP178_V5.2.2 Welcome To IP210 Web Server	
連線 00:08:15 ANSIW 19200 8-N-1 SCROLL CAPS NUM 撷 列印	1.

~ABOVE~

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Spanning Tree User can set up a series of attributes such as STP.

dministrator		8 Ports SmartSwitc	h WebController		
LAN Setting	Basic Feature Management				
oS Setting	Support	CoS BottBase V/LAN	Embedded HTTP web Management		
ort Security	Broadca	st storm Protection	Port Status configure Port Status configure		
panning Tree	Advanced Swit	ch	Port Base VLAN Setting Port Base DataRate Setting		
 STP Bridge Settings STP Port Settings 	Support Auto M	2 fiber port I/MDIX option	Port Locking QoS Setting Password security		
Loopback Detection	Inter/for Support	Packet length 1552/1536	TFTP firmware upgradable		
onfiguration					
anecovery out					
intercovery out					
intercovery ut					

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STP Bridge Settings

- 1. Choice STP Mode
- 2. 2.Display the bridge ID

6 TP +2 Fiber I	Port 10/100Mbps Fast Ethernet Switch				
 Administrator Port Management 	STP Bridge Settings				
 VLAN Setting QoS Setting Port Security Spanning Tree STP Bridge Settings STP Port Settings Loopback Detection Configuration Rackup/Recovery Logout 	Spanning Tree Settings Bridge Priority Hello Time Max Age Forward Delay				
	(0~61440) (1~10 Sec) (6~40 Sec) (4~30 Sec) Submit Submit Submit Submit				
	Note: 2*(Forward Delay-1) >= Max Age, Max Age >= 2*(Hello Time+1)				
	Note: If you enable the MAC address binding function, the address leaning function will be disabled automatically. Then both RSTP/STP and address learning will be affected.				
	SIP Mode Bridge ID Hello Time Max Age Forward Delay RSIP 32768:50 80 17 32 13 F0 2 20 15				
	Root ID Hello Time Max Age Forward Delay				
	I m the root bridge! 2 20 15				

Note: If you enable the MAC address binding function, the address leaning function will be disabled automatically. Then both RSTP/STP and address learning will be affected.

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STP Port Settings

For viewing and configuring STP Port

- 1. Select Port No.
- 2. Confirmation setting
- 3. Display STP Port state



Loopback Detection 1. Loopback Detection Settings 2. Reset All Ports 2. Description Of the set of t

3. Display STPT	Port State		
6 TP +2 Fiber	Port 10/100Mbps Fast Ethernet S	Switch 1 2 3 4 5 6	7 (riber) 8 (riber)
Administrator Port Management	Loopback Detection Setting	js 1	
VLAN Setting	Loopback Detect Function	Disable 🗸	
QoS Setting	Auto Wake Up	Disable 🗸	
Port Security	Wake-Up Time Interval	10 sec 🗸	
😵 Spanning Tree	Submi	t	
STP Bridge Settings STP Port Settings Loopback Detection Configuration Rackup/Recovery Logout	Reset All Ports		
	Port No. Status		
	2		
	3		
	4	3	
	5		
	6		
	7		
	8		