FIBERROAD®

WEB SMART PLUS Series

WebGUI Management User Manual

About This Manual

Introduction

This document chapter includes an introduction to the Fiberroad Industrial Ethernet products family,

Conventions

This document contains notices, figures, screen captures, and certain text conventions.

Figures and Screen Captures

This document provides figures and screen captures as example. These examples contain sample data. This data may vary from the actual data on an installed system.

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Revision History

Version	Date	Author	Reasons of Change	Section(s) Affected
1.0	2025/1/2		Initial Release	All

Chapter 1 System Configurations

This chapter describes the port configuration in detail, including but not limit to the following:

- System Information
- IP Setting
- User Account
- Port Setting

1. About Web-GUI Management

There is an embedded HTML web site residing in flash memory on CPU board of the switch, which offers advanced management features and allows users to manage the switch from anywhere on the network through a standard browser such as Mozilla Firefox or Chrome. (Note: Window IE is not supported) The Web-Based Management supports Mozilla Firefox 54.X or later, or Chrome 59.X or later. The Web browser is a program that can read hypertext.

1.1 Preparing for Web Management

Before using the web management, install the industrial switch on the network and make sure that any one of the PCs on the network can connect with the industrial switch through the web browser.

The industrial switch default value of IP, subnet mask, username and password are listed as below:

- IP Address: 192.168.1.6
- HTTP service: Enable
- User Name: admin
- Password: admin

1.2 System Manage

1.2.1 System Information

Overview the system information, including the System Name, MAC address, IPv4 address, Link-local IPv6 address, software version, Hardware version, etc.

			6 7 8 9 10						
System Manage	System Information								
System Info		Product model	FR-653208						
Account Settings		System name	Switch						
Port Settings		MAC address	2c:d1:41:44:45:17						
Optical Module Status System Config		IPv4 address	192.168.1.6						
VLAN		Link-local IPv6 address	FE80::2ED1:41FF:FE44:4517/64 (Auto)						
QoS		Global IPv6 address(es)	None						
Security		Subnet mask	255.255.255.0						
Tools		Default gateway							
Logout		DNS server							
		Software version	Software version LMS1.0.7						
		Hardware version	V.0.0.1						
	Apply Attention:								
	The system name lengt	h cannot exceed 32 characters.							

ltem	Description	Notes
System name	Default: Switch	The system name length cannot exceed 32 characters

1.2.2 System Manage-IP Settings

The IP setting is used to configure DHCP settings, IP address, Subnet mask, Default gateway and DNS server. The device supports Static IP address and DHCP automatically assigns IP address.



ltem	Description	Notes
DHCP	Enable/Disable	When enabled, enable
	Default: Disable	the DHC client to obtain
		the dynamic IP address.
		When disabled, use the
		configured static IP
		address.
IP Address	Default:192.168.1.6	Static IP Address
Subnet Mask Default:255.255.255.0		Static IP subnet mask
Gateway	Default: N/A	Gateway Adress
Auto DNS	Default: Disablt	Automatically updates
		Domain Name System
		(DNS) records, typically
		for dynamic IP addresses.
DNS Server	Default: N/A	After enabling DHCP, the
		IP address is obtained
		from the host's address.

1.2.3 System Manage – Account Settings

The account setting is used to configure user name and password

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← C ▲ 不安全 192.168.1.4	6/homepage.html				0 A G	C)	D F	4 %		0
		1 2 3 4 5	6 7 8	9 10						
System Manage	User settings									
System Info		Username	admin							
Account Settings		Old password								
Port Settings		New password								
Optical Module Status		Confirm password								
VLAN		Ar	vlac							
QoS										
Security	Attention:									
Tools	The length of the usern	name and new password cannot be more than 16 c	haracters, and only	numbers, English letters and un	derscores can be					
Logout	used.									

Item	Description	Notes
Username	Default: admin	The length of the
		username and new
		password cannot ne
		more that 16 characters,
		and only numbers,
		english letters and

		underscores can be used.
Old password	Default: admin	
New password		
Confirm password		

1.2.4 System Manage-Port configuration

The port configuration is used to configure the specific port state, automatic and data rate and flow control. And also used to check the status of the ports.

		Į	1 2 3	3 4 5	6 7 8	9 10				
System Manage	Port configuration	n								
System Info		Port	State	Auton	atic	Pote	Elow Contro			
IP Settings		FUIL	State	Auton	iduo	Rate	Flow Contro			
Port Settings		Port 1						-		
Optical Module Status		Port 3	L	<u> </u>	`L	~		<u> </u>		
System Config	L	Port 4								
VLAN				App	ly					
QoS										_
Security		Sta	te	Rat	e	Dur	olex	Flow C	Control	
Tools	Port	Configuration	Actual	Configuration	Actual	Configuration	Actual	Configuration	Actual	
Logout	Port 1	Enable	Disable	Automatic	N/A	Automatic	N/A	On	N/A	1
	Port 2	Enable	Disable	Automatic	N/A	Automatic	N/A	On	N/A	1
	Port 3	Enable	Disable	Automatic	N/A	Automatic	N/A	On	N/A	
	Port 4	Enable	Disable	Automatic	N/A	Automatic	N/A	On	N/A	
	Port 6	Enable	Disable	Automatic	NIA	Automatic	NIA	00	NIA	-
	Port 6	Enable	Disable	Automatic	N/A	Automatic	N/A	On	NIA	-
	Port 7	Enable	Disable	Automatic	IN/A	Automatic	IN/A	01	N/A	-
	Port 7	Enable	Enable	Automatic	1000M	Automatic	IN/A	On	IN/A	-
	Port 8	Enable	CIIdDle	Automatic	TOOOM	Automatic	Full Duplex	On	On	-
	Port 9	Enable	Enable	Automatic	1000M	Automatic	Full Duplex	On	On	
	(CED 1000PACE V)									-
	(SFP,1000BASE-X)									
	(SFP,1000BASE-X) Port 10	Enable	Enable	Automatic	1000M	Automatic	Full Duplex	On	On	

ltem	Description	Notes
Port	Port 1 to 10	
State	Enable/Diable	
	Default: Enable	
Automatic	Automatic Rate matching	
	Default: Enable	
Rate	When Automatic enabling, the	
	rate does not to configure.	
	When Automatic disabling, the	
	rate option to be:	
	10M half/full duplex	
	100M half/full duplex	
	1000M half/full duplex	
Flow control	Enable/Disable	Prevent data loss and
	Default: Enable	congestion

1.2.5 System Manage-Optical Module States

The Optical Module Stats is used to show the SFP Module operating status, such as Temperature, Tx Power(mW), Rx Power(mW) and Loss of Signal.

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				1 2 3 4	5 6 7 8	8 9 10						
Svetom Manago	C	Optical Mo	dule Status									
System Info												
IP Settings		Port	Tempreature(°C)	Voltage(V)	Current(mA)	Tx Power(mW)	Rx Power(mW)	Loss of Signal				
Account Settings		9	40.79	3.26	20.92	0.25	0.09	False				
Port Settings		10	43.46	3.27	23.13	0.25	0.25	False				
System Config												
VLAN												
QoS												
Security												
Tools												
Logout												

Chapter 2 System Configurations

This chapter describes the System configuration in detail, including but not limit to the following:

- IGMP Snooping
- Loop Prevention
- Spanning Tree
- LLDP Configuration

2. System Configuration

2.1 System Configuration-IGMP Snooping

IGMP Snooping is a feature in network switches that optimizes the delivery of multicast traffic. It allows the switch to intelligently forward multicast packets only to devices that are interested in receiving them, reducing unnecessary network traffic and improving performance.

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			9 10			
	1 2	3 4 0 0 7 6	8 10			
	IOND Concerning					
ystem Manage	IGMP Shooping					
ystem Config	IGMP Snooping	O Enable Disable				
Port Trunk	IGMP Fast-leave	🔵 Enable 💿 Disable				
Loop Prevention	IGMP Report Suppression	Enable Disable				
Port Mirror	VI AN ID	1				
Speed Limit		C Epoble Disable				
Jumbo Frame	IONP Quelle Status	Chable Disable				
Churp	IGMP Querier Election	Chable Usable				
SNMP		V2				
Spanning Tree	IGMP Querier Version			100		
Spanning Tree LLDP Config	IGMP Querier Version IGMP Querier Source Address	(If empty	, the default IP address	will be used!)		
SNNP Spanning Tree LLDP Config LLDP Neighbor	IGMP Querier Version IGMP Querier Source Address	(If empty	, the default IP address	will be used!)		
SNMP Spanning Tree LLDP Config LLDP Neighbor LAN	IGMP Querier Version IGMP Querier Source Address	(If empty Apply	, the default IP address	will be used!)		
SNMT Spanning Tree LLDP Config LLDP Neighbor LAN toos	IGMP Querier Version IGMP Querier Source Address	(If empty Apply	, the default IP address	will be used!)		
SNMIP Spanning Tree LLDP Config LLDP Neighbor LAN ecurity ecurity	IGMP Querier Version IGMP Querier Source Address	(If empty Apply	, the default IP address	will be used!}		
SMMP Spanning Tree LLDP Config LLDP Neighbor LLD Neighbor LAN toS ecurity cods convid	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address	(If empty Apply VLAN ID	, the default IP address	will be used!) Port		
SMMP Spanning Tree LLDP Config LLDP Heighbor LAN ecurity cos ecurity cos ools	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address	(if empty Appiy VLAN ID	, the default IP address	will be used!) Port		
SMMP Spanning Tree LLDP Config LLDP Neighbor LAN ecurity ools ogout	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status	(If empty Apply VLAN ID	, the default IP address	Will be used!) Port		
SMMP Spanning Tree LLDP Config LLDP Neighbor LAN ecurity cods ools	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status	(If empty Apply VLAN ID Ouerier Election Mode	the default IP address	Port	lifrage	
SMMP Spanning Tree LLDP Config LLDP Neighbor LAN ecurity pools ogout	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status VLAN ID State	(If empty Appiy VLAN ID Querier Election Mode	, the default IP address	Port Source IP Ad	ldress	
SMMP Spanning Tree LLDP Config LLDP Neighbor LAN boS ecurity bols ogout	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status VLAN ID State Router Port	(If empty Apply VLAN ID Querier Election Mode	the default IP address	Port Source IP Ad	Idress	
SMMP Spanning Tree LLDP Config LLDP Neighbor LAN ecurity ools ogout	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status VLAN ID State Router Port	(If empty Apply VLAN ID Querier Election Mode	the default IP address	Port Source IP Ad	ldress	
SMMP Spanning Tree LLDP Config LLDP Neighbor LLDP Neighbor ecurity cols ools oggout	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status VLAN ID State Router Port	(If empty Apply VLAN ID Querier Election Mode Static	the default IP address	Port Port Dynamic	Idress	
SMMP Spanning Tree LLDP Config LLDP Neighbor CLAN ecurty aols ogout	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status VLAN ID State Router Port Port Port	(If empty Appiy VLAN ID Querier Election Mode Static	the default IP address	Port Port Dynamic	ldress	
SMMP Spanning Tree LLDP Config LLDP Neighbor LLN oS sols curthy sols ggout	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status VLAN ID State Router Port Port 1 Port 1 Port 2		the default IP address	Port Dynamic	Idress	
SMMP Spanning Tree LLDP Config LLDP Neighbor LAN ecurity ools ogout	IGMP Querier Version IGMP Querier Source Address IGMP Snooping Group Entry MAC address IGMP Snooping Querier Status VLAN ID State Router Port Port 1 Port 1 Port 2 Port 3	VLAN ID Querier Election Mode Static	the default IP address	Port Port Dynamic	Idress	

ltem	Description	Notes
IGMP Snooping	Enable/Disable	Default: Disable
IGMP Fast-leave	Enable/Disable	Default: Disable
		Notification control is
		achieved through IGMP
		Leave messages. By
		default, the switch will
		immediately leave the
		multicast group upon
		receiving the Leave
		message and stop
		forwarding multicast

		traffic to this port (note: when enabled, it may increase the processing burden on the switch in
		large-scale networks)
IGMP Report Suppression	Enable/Disable	Default: Disable IGMP Report suppression is a network optimization mechanism that reduces unnecessary IGMP report messages in the network, suppresses duplicate IGMP reports, lowers network load, and improves efficiency. It is mainly applicable when multiple hosts join the same multicast group and send the same IGMP report messages.
VLAN ID		
IGMP Querier Status	Enable/Disable	Default: Disable After enabling, you can check that the query group messages are sent regularly to 224.0.0.1 to query whether any hosts on the subnet need to receive any multicast messages.
IGMP Querier Election	Enable/Disable	Default: Disable
IGMP Querier Version	V2	
IGMP Querier Source Address		When the queryer status is enabled, the source address will be displayed here.

2.2 System Configuration-Port Trunk

Port Trunk is a technology that combines multiple physical ports into a single logical link through software configuration. It is mainly used to increase the bandwidth between switches and network nodes, providing higher transmission performance and link redundancy.



ltem	Description	Notes
Trunk Group	Trunk 1,2,3,4	Supports up to 4 trunk
		groups
Forward Port	Select the corresponding physical port. At least two ports need to be involved. When making the selection, please hold down the 'Ctrl' key on the keyboard for multiple selection operations.	Each aggregation group has at most 8 member ports
Selection-Delete	Check the corresponding trunk groups that need to be deleted, and then click the "Delete" button.	

2.3 System Configuration-Loop Prevention

Loop prevention, also known as loopguard, is a feature in Layer 2 switching that helps prevent network loops by blocking ports when loops are detected.

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← C ▲ 不安全 192.168.1	۶/homepage html	2 A G I	0 0 1	à %	📀
System Manage	Loop prevention settings				
System Config		_			
IGMP Snooping	Loop prevention state Disable ~				
Port Trunk	Apply				
Loop Prevention					
Speed Limit	Port State				
Jumbo Frame	Port1 normal	1			
EEE Config	Port2 normal	-			
SNMP Spanning Tree	Port3 normal	-			
LLDP Config	Port4 normal	-			
LLDP Neighbor	Port5 normal	-			
VLAN	Port6 normal	-			
QoS	Port7 normal	-			
Toole	Port8 normal	-			
Logout	Port9 normal	-			
	Port10 normal	-			
	Attention:				
	When a port detects loopback, the port will be automatically blocked.				

Item	Description	Notes
Loop prevention	Enable/Disable	Default:Disable
state		To enable the loopback
		protection state, the RSTP
		function of the device
		needs to be disabled.
		After enabling the loop
		prevention function, the
		switch will continuously
		send broadcast messages
		to the corresponding port
		for detection. Once the
		corresponding device
		receives the loopback
		information, it will
		automatically block the
		loopback port.

2.4 System Configuration-Port Mirror

Port mirroring is a network function that duplicates traffic from one or more source ports or VLANs and forwards it to a designated destination port, also known as a monitoring port or analyzer port. This mirrored traffic can then be analyzed by network monitoring tools for troubleshooting, security analysis, or performance optimization.

1 192.165.1.b/homepage.html X	+				-
入 不安全 192.168.1.6/homepage	e.html			PA G	0 0 0 0
		1 2 3 4	5 6 7 8 9	10	
vstem Manage	Port Mirror				
stem Config	Session	Port mir	roring is enabled	Mirror Port	1
GMP Snooping	1	Disable	~	•	1
oop Prevention	2	Disable	~	~	-
Port Mirror	3	Disable	~	~	-
Speed Limit	4	Disable	~		
Jumbo Frame	Sector	Mirrored port	Ingrees	Enress	
SNMP	003001	Port 1	ingroos	Egicas	4
Spanning Tree	1	Port 2	Disable	Disable	
LLDP Config		Port 3 Port 4	Disable	Distance	
LLDP Neighbor					1
oS			Apply		
acurity					_
ols	Mirrored port		Ingraee	Enrace	
gout	Port1		Disable	Disable	4
	Port2		Disable	Disable	-
	Port3		Disable	Disable	-
	Pott		Disable	Disable	-
	Potts		Disable	Disable	-
	CTUM Date		Disable	Disable	-
	Port6		Disable	Disable	-
	Port/		Disable	Lisable	-
	Port8		Disable	Disable	-
	Port9		Disable	Disable	-
	Port10		Disable	Disable	

ltem	Description	Notes
Session		This device supports a maximum of 4 sets of mirrored ports.
Port Mirroring is	Enable or disable the	
enabled	corresponding functions for	
	the mirror session	
Mirror Port	Select the mirror port. Each	
	mirror session can only have	
	one mirror port.	
Mirrored Port	Select the mirrored ports. You	
	can choose multiple ports. Use	
	the 'Ctrl' key for multiple	
	selections.	
Ingress	The ingress data of the	
	mirrored port	
Egress	The egress data of the	
	mirrored port	

2.5 System Configuration-Speed Limit

The port speed limit function mainly restricts the transmission speed of the port. It is used to balance network bandwidth, prevent malicious attacks, protect server resources, etc. It can effectively control the network traffic.

stem Manage	Port Speed Limit			
stem Config	Port	Ingress Speed	Egress Speed	
GMP Snooping Port Trunk .oop Prevention Port Mirror	Port 1 Port 2 Port 3 Port 4 V	* 32Kbps	* 32Kbps	
peed Limit umbo Frame EE Config		Apply	·	
ipanning Tree	Port	Ingress Speed	Egress Speed	
DP Config	Port 1	Disable	Disable	
LDP Neighbor	Port 2	Disable	Disable	
AN	Port 3	Disable	Disable	
urity	Port 4	Disable	Disable	
ls	Port 5	Disable	Disable	
out	Port 6	Disable	Disable	
	Port 7	Disable	Disable	
	Port 8	Disable	Disable	
	Port 9	Disable	Disable	
	Port 10	Disable	Disable	

ltem	Description	Notes
Port	Select the corresponding ports	
	that require speed limit. You	
	can use 'Ctrl' + the port	
	number to select them in	
	batches.	
Ingress Speed	Minimum 1*32kbps, maximum	
	10000*32kbps	
Egress Speed	Minimum 1*32kbps, maximum	
	10000*32kbps	

2.6 System Configuration-Jumbo Frame

Jumbo frames are Ethernet frames that exceed the standard Maximum Transmission Unit (MTU) of 1500 bytes. They offer the potential to improve network performance by reducing the number of frames transmitted, leading to lower CPU load and potentially higher data throughput, especially in highbandwidth environments like data centers.

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System Manage	Jumbo Frame Configuration					
System Config						
IGMP Snooping	Jumbo Frame Enable Enable Disable					
Port Trunk	MTU size 15k •					
Loop Prevention	Applia					
Port Mirror	A A A A A A A A A A A A A A A A A A A					
Speed Limit	4k					
Sumbo Frame	5K 6k					
SNMP	7ĸ					
Spanning Tree	8k 0k					
LLDP Config	12k					
LLDP Neighbor	15k					
VLAN						
QoS						
Security						
Tools						
Logout						

ltem	Description	Notes
Jumbo Frame Enable	Enable/Disable Default:Disable	Generally, the application of Jumbo frames requires that all devices on the link enable Jumbo frame mode and maintain the same MTU value; otherwise, it may lead to performance degradation
		or packet loss.
MTU size	Maximum 15K	

2.7 System Configuration-EEE Configuration

EEE (Energy Efficient Ethernet) is an IEEE 802.3az standard designed to reduce power consumption in Ethernet networks during idle periods. It's enabled at the interface level, and its configuration involves enabling it for the desired electrical interface.

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			10		
System Manage	EEE configuration				
System Config					
IGMP Snooping	EEE s	Disable	-		
Port Trunk		Apply Enable	_		
Loop Prevention					
Port Mirror Speed Limit	Port	EEE state	Selected		
Jumbo Frame	1	Disable			
EEE Config	2	Disable			
SNMP	3	Disable			
Spanning Tree	4	Disable			
LLDP Config	5	Disable			
LLUP Neignbor	6	Disable			
QoS	7	Disable			
Security	8	Disable			
Tools	9	Disable			
Logout	10	Disable			

ltem	Description	Notes
EEE State	Enable/Disable	Default:Disable
Selected	Select the port and enable the	
	EEE	

2.8 System Configuration-SNMP

SNMP stands for Simple Network Management Protocol. It's an Internet Standard protocol used for managing and monitoring network-connected devices in IP networks.

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← 〇 ▲ 不安全 192.168.	1.6/homepage.html					0 A*	습 C	1 1	s	•
		1 2	3 4 5 6 7	8 9 10						
System Manage	Version									_
System Config		SNMP v1	Enable Disable			1				
Port Trunk		SNMP v2c	Enable Disable							
Loop Prevention Port Mirror			Apply			-				
Speed Limit Jumbo Frame EEE Config	Communit	ies								
SNMP		read community	public]]				
Spanning Tree		write community	private							
LLDP Neighbor		trap community	public							
VLAN			Apply							
QoS										
Security	Тгар									
Logout		SNMP v1 trap	O Enable Disable			1				
Lugoui		SNMP v2c trap	O Enable Disable							
		Trap Server	🔿 By name 🖲 By IP	192.168.0.1		1				
		Trap type	Cold/Warm start	.ink up/down 🗌 Authenti	cation Failure	1				
			Apply							

ltem	Description	Notes
Version	SNMPv1:Enable/Disable	
	SNMPv2:Enable/Disable	
Communities	read community: public	The authentication string
	write community:private	used to verify the
	trap community:public	legitimacy of SNMP Trap
		messages can ensure that
		the trap messages are
		sent by trusted devices to
		the NMS management
		site.
Trap	SNMPv1 trap: Enable/Disable	
	SNMPv2c trap: Enable/Disable	
	Trap Server: By name or By IP	
	Trap type: Cold/Warm start	
	Link up/down	
	Authentication	
	Failure	

2.9 System Configuration-Spanning Tree Configuration

Spanning Tree Protocol (STP) is a crucial Layer 2 network protocol that prevents loops in a switched network by selectively blocking redundant paths. This ensures a loop-free logical topology, preventing broadcast storms, MAC address table instability, and multiple frame copies.



ltem	Description	Notes
Spanning Tree State	Enable/Disable	
Force Version	STP/RSTP	
Forward Delay	4-30 seconds	It is a timer for controlling the switching of port states, ensuring that data forwarding is permitted only after the loop has been eliminated.
Max Age	6-40 seconds	The timer unit used to determine whether the configured BPDU message has timed out. It is mainly used for the timeout period of the blocked port. If no BPDU message is received within the specified time, a re-negotiation will occur. Secondly, it controls the network scale and prevents the BPDU message from being forwarded too far.

Transmit hold count	1-10 BPDUs				
Priority	0-61440, in steps of 4096	Default:32768			
Port	Port 1 to Port 10				
Priority	Default:128, Priority:16	Port election decision parameters, used to elect the root port or designated port role on the switch. The lower the priority, the higher the priority. By default, the election is generally based on the port number.			
Cost	Gigabit is 2000, 10 Gigabit is 200, the bandwidth is automatically calculated and no modification is required.				

2.10 System Configuration-LLDP Configuration

LLDP (Link Layer Discovery Protocol) is an industry-standard, vendor-neutral Layer 2 protocol used by network devices to advertise their identity, capabilities, and other relevant information to directly connected neighboring devices on a local area network (LAN).

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System Manage LLDP C	1 2 Configuration	3 4 5 6 7	8 9 10							i
System Config	LLDP Global	Enable Disable								- 1
IGMP Snooping Port Trunk	Tx Interval	30	seconds (Bange:5-32768 default 30)	-						- 1
Loop Prevention	Tx Hold	4	seconds (Range-2-10 default 4)	-						- 1
Port Mirror	Reinit Delay	2	seconds (Range 1-10 default 2)	-						- 1
Speed Limit	Ty Delay	2	seconds (Range 1-8192 default 2)	-						- 1
EEE Config	TX Doldy		seconds (range: no roz, asidar z)							
SNMP		Apply								
Spanning Tree										
LLDP Neighbor	Port		Admin Control							
VLAN QoS Security	Port 1 A Port 2 Port 3 Port 4 V	Port 1 A Port 2 B Port 3 Disable V Port 4 V								
Tools Logout		Apply								
	Port		Admin Status							
	Port 1		Tx & Rx							
	Port 2		Tx & Rx							
	Port 3		Tx & Rx							
	Port 4		Tx & Rx							
	Port 5		Tx & Rx							
	Port 6		Tx & Rx							
	Port 7		Tx & Rx							
	Port 8		Tx & Rx							
	Port 9		Tx & Rx							Ŧ

ltem	Description	Notes
LLDP Global	Enable/Disable	Default: Enable
Tx Interval	5-32768 seconds	Default:30 second
		The sending interval time of the
		LLDPDU message encapsulating TLV

Tx hold	2-10 seconds	Default:4 seconds
		The duration for which the device
		information remains valid in the
		neighboring devices
Reinit Delay	1-10 seconds	Default:2 seconds
		The delay time from the enabled
		state to the re-enabled state, to
		avoid topological connection
		oscillation of neighboring devices
		caused by frequent changes in the
		LLDP protocol state.
Tx Delay	1-8192 seconds	Default: 2 senconds
		The minimum delay time for
		sending LLDP messages to
		neighboring devices when the
		device status changes frequently
Admin Control		After enabling the LLDP function, all
		default ports remain in the
		management and control state,
		capable of sending and receiving
		LLDP messages. This configuration
		allows for the disabling of LLDP
		sending or receiving functions.

2.11 System Configuration-LLDP Neighbor

Neighbor device status information of the corresponding port.

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					2 3	4	5 6 / 8	9 10								
													_	_		4
tem Manage	LLDP Ne	ighbor														
em Config		-														
MP Spooping		Local Port	Chassis ID	Port ID	System Name	TTL	Med Capabilities	Med Device Type	Network Policy	Extended Por	wer					
rt Trunk		port 9	2c-d1-41-44-45-11	port 10	Switch	120	medCapabilities	netConnectivity								
on Prevention		port 10	20 d1 41 44 45 1	7 port 0	Cwitch	120	medConshilition	netConnectivity			_					
rt Mirror		port to	20-01-41-4440-11	port_a	Switch	120	medcapabilities	neconnectivity								
it million																
mbo Frame																
E Config																
MP																
anning Tree																
DP Config																
DP Neighbor																
4																
anty																
ut																

Chapter 3 VLAN

This chapter describes the VLAN functions in detail, including but not limit to the following:

- Port-based VLAN
- 802.1Q VLAN
- Voice VLAN
- Surveillance VLAN

3. VLAN

3.1 VLAN-MTU VLAN Settings

It can be understood as the port isolation function. Set an uplink port. This port can maintain effective communication with all the ports below, but the other ports below are isolated from each other. Note that after enabling the MTU port, the functions such as port VLAN and 802.1Q VLAN are all disabled.

System Manage	MTU VLAN Set	tings		
System Config VLAN		MTU VLAN enabled: Enable 	O Disable Apply	
Port-based VLAN		Current Uplink Port	1	
802.1Q VLAN Voice VLAN Surveillance VLAN QoS		Select Uplink Port	Port 1 Port 2 Port 3 Port 4	
Security		Ap	ply	•
Tools				
Logout				

ltem	Description	Notes				
MTU VLAN	Enable/Disable	Default: Disable				
Current Uplink Port	After a port is selected, that					
	port remains in					
	communication with other					
	ports, while the other ports					
	are isolated from each other					
	and do not communicate with					
	one another.					

3.2 VLAN-Port-based VLAN

Port-based VLANs are the simplest and most common method for implementing Virtual Local Area Networks (VLANs) on a network switch. In a port-based VLAN setup, each physical port on a switch is statically assigned to a specific VLAN.

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System Manage	Port-based VLAN Settings						
System Config	Port-based VLAN enab	oled: Enable Disable Apply					
VLAN MTU VLAN				_			
Port-based VLAN	VLAN	(1-4094, maximum configurable number: 10)					
802.1Q VLAN Voice VLAN	Port 1	2 3 4 5 6 7 8 9	10				
Surveillance VLAN	Member 🗌						
QoS		Apply Delete					
Tools	NE ANI	Manuface Deat					
Logout	1	1-10					
			100				

ltem	Description	Notes
Port-based VLAN enabled	Enable/Disable	Default: Enable
VLAN	1-4094, maximum	
	configuration number:10	
Member	Select the corresponding ports	
	based on the corresponding	
	VLAN.	

3.3 VLAN-802.1Q VLAN Settings

802.1Q VLAN settings refer to the configuration parameters for implementing VLANs using the IEEE 802.1Q standard, which is the most widely adopted method for VLAN tagging in Ethernet networks. This standard defines how VLAN information is inserted into Ethernet frames to allow multiple VLANs to share a single physical link (known as a trunk link).

			3 4 5 6 7	8 9 10	
System Manage	802.1Q VLAN Setting	s			
System Config		802 10 VI AN epob		Apply	
VLAN		002. NG VEAN ENAD		Арру	
MTU VLAN					
Port-based VLAN	802.1Q VLAN	(1	1094)	Description	
Voice VLAN	Port	Untagged p	ort T	agged port	Non-member port
Surveillance VLAN	Select All				
QoS	Port 1	0		0	0
Security	Port 2	0		0	0
Tools	Port 3	0		0	0
Logout	Port 4	0		0	0
	Port 5	0		0	0
	Port 6	0		0	0
	Port 7	0		0	0
	Port 8	0		0	0
	Port 9	0		0	0
	Port 10	0		0	0
			Apply Delete		
	VLAN	VLAN description	Member Port	Tagged port	Untagged port
	1		1-10	-	1-10

ltem	Description	Notes
802.1Q VLAN	Enable/Disable	Default:Disable
enabled		
802.1Q VLAN ID	1-4094	
Description	Optional	
Port	For the selected port, you can	
	choose Untagged port, Tagged	
	port or non-member port.	

			9 10
Custom Manage	1	1-10	- 1-10
System Config VLAN	802.1Q Port Settings		
MTU VLAN	Port	PVID	Ingress filter
Port-based VLAN 802.1Q VLAN Voice VLAN Surveillance VLAN	Port 1 Port 2 Port 3 Port 4		· · ·
QoS		Apply	
Security			
	Port	PVID	Ingress filter
	Port 1	1	Disable
	Port 2	1	Disable
	Port 3	1	Disable
	Port 4	1	Disable
	Port 5	1	Disable
	Port 6	1	Disable
	Port 7	1	Disable
	Port 8	1	Disable
	Port 9	1	Disable
	Port 10	1	Disable

ltem	Description	Notes
Port	Select the corresponding port	
	according to the specifications	
	in the 802.1Q VLAN settings.	
PVID	Fill in the corresponding VLAN	
	PVID number according to the	
	rules set in 802.1Q VLAN.	
Ingress Filter	Enable/Disable	

3.4 VLAN-Voice VLAN Configuration

A Voice VLAN is a specialized Virtual Local Area Network (VLAN) specifically dedicated to carrying Voice over IP (VoIP) traffic from IP phones. Its primary purpose is to ensure the Quality of Service (QoS) for voice communications, which are highly sensitive to latency, jitter, and packet loss.

System Manage	Voice VLAN Configurat	ion		
System Config		Voice VLAN enabled: () Enable	O Disable Apply	
Port-based VLAN		VLAN ID		
802.1Q VLAN Voice VLAN		Priority	0 ~	
Surveillance VLAN		Ap	ply	
QoS				
Security	Enable default OL	JI 💿 Default OUI description 3cor	n v OUI 00:E0:BB	
Logout	Enable custom OL	JI O Custom OUI description	OUI	Add
	Sequence Number	OUI Description	OUI	Delete
		Del	ete	
	Attention:			

Port Configuration

Select	Port	Port Mode	Member State
		Manual v	
	Port1	Auto	Inactive
	Port2	Auto	Inactive
	Port3	Auto	Inactive
	Port4	Auto	Inactive
	Port5	Auto	Inactive
	Port6	Auto	Inactive
	Port7	Auto	Inactive
	Port8	Auto	Inactive
	Port9	Auto	Inactive
	Port10	Auto	Inactive
		Apply	

ltem	Description	Notes
Voice VLAN enabled	Enable/Disable	Default: Disable
VLAN ID	After determining which VLAN	
	the voice traffic will use based	
	on the 802.1Q VLAN	

	configuration, proceed to fill in
	the details.
Priority	Different voice VLANs can have
	different priorities. You can fill
	in the options as needed. The
	higher the number, the higher
	the priority.
OUI	According to the inquiry by the
	IP phone manufacturer, a fixed
	unique number can be used
	and customized.
Port Configuration	After checking the
	corresponding IP phone port,
	select either manual or
	automatic.

3.5 VLAN-Surveillance VLAN Configuration

A Surveillance VLAN (also known as a Video VLAN or sometimes Auto Surveillance VLAN in some vendor implementations) is a dedicated Virtual Local Area Network specifically designed to carry IP camera and Network Video Recorder (NVR) traffic.

System Manage System Config VLAN	Surveillance VLAN Configuration Surveillance VLAN enabled: Enable Apply
MTU VLAN Port-based VLAN 802.1Q VLAN Voice VLAN	VLAN ID
Surveillance VLAN QoS Security Tools	Apply Enable default OUI Default OUI Default OUI description 3com OUI 00:E0:BB
Logout	Sequence Number OUI OUI Ad
	Attention:
	An OUI can only be assigned to either Voice VLAN or Surveillance VLAN.
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ltem	Description	Notes
Surveillance VLAN	Enable/Disable	Default: Disable
enabled		
VLAN ID	After determining which VLAN	
	the video traffic will use based	
	on the 802.1Q VLAN	
	configuration, proceed to fill in	
	the details.	
Priority	Different Surveillance VLANs	
	can have different priorities.	

	You can fill in the options as
	needed. The higher the
	number, the higher the
	priority.
OUI	According to the inquiry by the
	Video Camera manufacturer, a
	fixed unique number can be
	used and customized.

Chapter 4 QoS

This chapter describes the QoS functions in detail, including but not limit to the following:

- QoS Basic
- QoS Advanced

4. QoS

4.1 QoS-QoS Basic

QoS (Quality of Service) is a set of technologies and mechanisms used in computer networks to manage and prioritize network traffic, ensuring that critical applications and services receive the necessary bandwidth, low latency, minimal jitter, and reduced packet loss. In essence, QoS allows network administrators to differentiate between various types of traffic and apply different levels of service based on their importance and sensitivity to network conditions.



Q4

Q5

Q6

Q7 Apply 5

6 7

8

ltem	Description	Notes
QoS Port Select	After checking the port, the	
	corresponding QoS policy will	
	be activated.	
QoS Policy	Optional SP absolute priority	
	strategy, or WRR (Weighted	
	Round Robin) or WFQ	
	(Weighted Fair Queueing)	
	priority polling strategy	
Queue Weight	Only effective for WRR or WFQ.	
Setting	Configure the weight ratio of	
	the priority queues.	

4.2 QoS-QoS Advanced

The QoS advanced configuration function is mainly used for the global QoS configuration of the device, including the adoption of three priority methods: port QoS, 802.1p, and DSCP. Among them, the port priority is the default priority method of the device. When the packet does not carry any other priority mark, such as a packet without VLAN Tag, it adopts the port priority. The 802.1p priority is located in the TCI field of the Layer 2 VLAN tag, using 3 bits, with a range of 0-7, and is used to identify the priority of frames in the Layer 2 network. The DSCP priority belongs to the three-layer marking and is located in the TOS field of IPv4 or the Traffic Class field of IPv6, using 6 bits, with a range of 0-63. The use of Differentiated Services Code Point (DSCP) mainly serves for traffic classification and policy application.

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				1 2 3 4 5 6 7 8	9 10		
System Manage		Global Confi	guration				
System Config			QoS mode	Port-based Based on 80	2.1p OBased on DSC	P	
VLAN QoS				Apply		_	
OoS Racio							
Based on Port Setting	s			Priority Queue Mappin	g		
	Choice	Port	Priority		Choice	Priority	Queue
			0 ~			Thomy	00
		Port 1	0			0	01
		Port 2	0			U	Q1
		Port 3	0			1	Q0
		Port 4	0			2	Q2
		Port 5	0			3	Q3
		Port 6	0			4	Q4
		Port 7	0			5	Q5
		Port 8	0		0	6	06
		Port 9	0		0	-	07
		Port 10	0			1	Q/
		Apply				Apply	

Global Configuration

QoS mode	 Port-based 	Based on 802.1p	Based on DSCP
	Ар	ply	

Priority Queue Mapping

Choice	Priority	Queue
		Q0 ~
	0	Q1
	1	Q0
	2	Q2
	3	Q3
	4	Q4
	5	Q5
	6	Q6
	7	Q7
	Apply	

Global Configuration

QoS mode	O Port-based	O Based on 802.1p	Based on DSCP
	Ар	ply	

Based on DSCP Settings

Choice	DSCP	Priority
		0 ~
	0	0
	1	0
	2	0
	3	0
	4	0
	5	0
	6	0
	7	0
	8	0
	9	0
	10	0
	11	0
	12	0
	13	0
	14	0
	15	0
	16	0
	17	0
	40	^

ltem	Description	Notes
QoS Mode	Port-based	
	Based on 802.1p	
	Based on DSCP	
Based on Port	Port priority setting	
Settings-Priority		
Priority Queue	The priority and queue are	
Mapping	mapped, and generally no	
	changes are made.	
Based on DSCP	Setting priorities in the DSCP	
setting-priority	mode	

Chapter 5 Security

This chapter describes the Security functions in detail, including but not limit to the following:

- ÷ MAC Manage
- ٠. Storm Control
- ٠ **DHCP** Snooping

5. Security

5.1 Security – MAC Manage

After setting the maximum number of MAC addresses for the corresponding port, the device forwards only the manually bound static MAC addresses. It will only dynamically learn other MAC addresses when the number of bound static MAC addresses is less than the maximum number.

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ltem	Description	Notes
MAC Configuration	select the corresponding port	
	index to impose a limit on the	
	maximum MAC address	
	learning.	
Port Index, VID, MAC	Fixed static MAC addresses for	
address	corresponding ports can be set	
	and manually added.	

5.2 Security – Storm Control

Storm control is a crucial network security and performance feature implemented on network switches to prevent traffic storms. A traffic storm occurs when an excessive amount of a specific type of traffic (broadcast, multicast, or unknown unicast) floods a LAN, consuming excessive bandwidth, overwhelming network devices, and potentially leading to network performance degradation or even complete outages.

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			1 2 3	4 5 6 7	9 10							
System Manage	Storm Suppr	ession										
System Config		Unknown Ur	nicast Packets	Multicas	st Packets	Broadca	st Packets					
	Port	State	Speed Kbps 🗸	State	Speed Kbps 🗸	State	Speed Kbps	¥				
Security MAC Manage Storm Control	Port 1 Port 2 Port 3 Port 4	Disable v		Disable v		Disable v						
Cable Diagnostics DHCP Snooping Tools				Apply				_				
Logout	Port	Unknown Un	cast Packets	Municas	l Packets	Broadcas	st Packets	_				
		State	Speed	State	Speed	State	Speed					
	Port 1	Disable	0pps	Disable	0pps	Disable	0pps					
	Port 2	Disable	0pps	Disable	0pps	Disable	0pps					
	Port 3	Disable	0pps	Disable	0pps	Disable	0pps					
	Port 4	Disable	0pps	Disable	0pps	Disable	0pps					
	Port 5	Disable	0pps	Disable	0pps	Disable	0pps					
	Port 6	Disable	0pps	Disable	0pps	Disable	0pps					
	Port 7	Disable	0pps	Disable	0pps	Disable	0pps					
	Port 8	Disable	0pps	Disable	0pps	Disable	0pps					
	Port 9	Disable	0pps	Disable	0pps	Disable	0pps					

ltem	Description	Notes
Port	Unknown Unicast Packets	Select the corresponding
	Multicast Packets	ports that need to be
	Broadcast Packets	operated on. Holding
		down the 'Ctrl' key allows
		for batch selection.
State	Default:Disable	
Speed	Kbps/pps	

5.3 Security – Traffic Monitor

The traffic monitoring function mainly provides the cumulative values of the number of bytes sent/received and the number of packets sent/received by each port during actual operation.

		1 2 3		9 10		
ystem Manage	Traffic Monitor					
ystem Config	Port	Tx bytes	Rx bytes	Tx pkts	Rx pkts	
NN.	Port 1	0	0	0	0	
curity	Port 2	0	0	0	0	
MAC Manage	Port 3	0	0	0	0	
Storm Control	Port 4	0	0	0	0	
Fraffic Monitor	Port 5	0	0	0	0	
DHCP Snooping	Port 6	0	0	0	0	
bls	Port 7	0	0	0	0	
jout	Port 8	1664187	1435062	4147	7594	
	Port 9	379993	3712	3216	58	
	Port 10	3712	379993	58	3216	

5.4 Security – Cable Diagnostics

Provide the cable status of each electrical interface on the equipment

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	1		10	
System Manage	Cable Diagnostics			
System Config		Port Index: 8 y Test		
VLAN		Port index.		
QoS				
Security	Pair	Cable Status	Cable Length (m)	
MAC Manage	A	normal	0.8	
Storm Control	В	normal	2.4	
Traffic Monitor	С	normal	2.4	
DHCP Spooping	D	normal	2.4	
Tools				
Logout	Attention:			
	Only support cable diagnostic for 1G speed.			

5.5 Security – DHCP Snooping

DHCP Snooping is a Layer 2 security feature implemented on network switches to protect against unauthorized (rogue) DHCP servers and various DHCP-related attacks. It acts as a firewall for DHCP messages, ensuring that only legitimate DHCP servers can assign IP addresses to clients and that clients only use IP addresses they were legitimately assigned.

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				1 2 3	4 5 6 7	8 9	10					
System Manage	HCP Sno	oping										
System Config												
VIAN	DHCP Snooping: O Enable (B) Disable Apply											
P	Port Configuration											
Security												
MAC Manage	Port	Trust	Option 8	2 Operation	Circuit Id	Circuit Id Sub-	-option	Remote Id	Remote Id Sub-option			
Storm Control					Custom			Custom				
Traffic Monitor	Port1											
Cable Diagnostics	Port2			~	v v			~				
Tools	Port4 v											
					Apply					·		
					Арріу							
	Port T	ust Option 8	2 Operation	Circuit Id	Circuit Id Sub-	option	Remote Id	Rer	mote Id Sub-option			
				Custom			Custom					
	Port1 Dis	able Disable	Keep	Default	MAC Address							
	Port2 Dis	able Disable	Keep	Default			MAC Address					
	Port3 Dis	able Disable	Кеер	Default			MAC Address					
	Port4 Dis	able Disable	Кеер	Default			MAC Address					
	Port5 Dis	able Disable	Кеер	Default			MAC Address					
	Port6 Dis	able Disable	Keep	Default			MAC Address					
	Port7 Dis	able Disable	Keep	Default			MAC Address					

ltem	Description	Notes
DHCP Snooping	Default: Disable	
Port	Select the corresponding	
	listening port	
Trust	Select the configuration for	
	Snooping port and enable	
	trust.	
Option 82	The enhanced service option is	
	mainly used for the relay proxy	
	function.	

Chapter 6 Tools

This chapter describes the tools functions in detail, including but not limit to the following:

- System Upgrade
- Ping Tool
- Backup Restore
- System Reset

6. Tools

6.1 Tools – System Upgrade

The equipment is equipped with a system upgrade function. When a system upgrade operation is required, please use the correct upgrade file provided by our company to carry out the upgrade. After selecting the file, simply click "Apply".

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System Manage	System upgrade				
System Config	Ready to upgrade the coffuere? You need to restart after the upgrade is complete				
VLAN	reauy to upgrade the software r fou need to restant anel the upgrade is complete.				
QoS	There is no file been calleded Select file Apply				
Security	There is no line been selected Select line report				
Tools					
	Attention:				
Ping Tool	1. Please do not power off during the upgrade process, otherwise the machine may be damaged.				
Backup Restore	2. It is recommended to backup the current configuration before upgrading.				
System Reset					
Save Settings					
System Reboot					
Logout					

6.2 Tools - Ping Tool

The equipment integrates Ping application commands based on this, and can send request messages and display response message situations via the ICMP protocol to achieve the purpose of testing whether the target site is reachable and obtaining related status information such as connection packet loss rate and average round-trip time.

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			5 6 7 8 9 10							
System Mana	e Ping Tool									
System Config		Host Name/IP Address	Number of Pings	1						
QoS			Default: 4 User Defined 4 Range: 1 - 65535							
Security Tools		Start	Ping Cancel							
System Upg	ade	2011		-		-				
Ping Tool Rockup Por		Host Address	0.0.0.0							
System Res	ore at	Number of Packets sent	0	1						
Save Settin	S	Number of Packets Received	0							
System Ret	pot	Packet Lost	0 %	1						
Logout		Minimum Round Trip Time	0 ms	1						
		Maximum Round Trip Time	0 ms	1						
		Average Round Trip Time	0 ms							
		Status	N/A							

6.3 Tools – Backup Restore

The device provides the functions of downloading configuration files and uploading configuration files. Through these functions, users can perform operations such as saving configurations, modifying configurations and then uploading them.

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System Manage	System Configuration Backup
System Config VLAN QoS Security Tools System Upgrade Ping Tool Backup Restore System Reset Save Settings	Click the configuration backup button to back up the last saved configuration. It is recommended to save the current configuration first before backing up. Configuration backup System Configuration Restore Select a backup configuration file and click the restore configuration button, then You can restore the switch to its previous configuration.
System Reboot	Configuration file: There is no file been selected Select file Configuration Restore
Logout	
	Attention:
	1: It takes a few minutes to backup or restore the configuration. Please do not perform other operations during this period.
	2: Please do not power off during the backup or restore configuration, otherwise the machine may be damaged.
	3: After restoring the configuration, the current configuration will be lost. Incorrect configuration may cause the switch to be unmanageable.
	4: To apply the restored configuration, the system need be rebooted manually after restoring the configuration.

6.4 Tools – System Reset

Restore to factory default configuration operation. Please proceed with caution to avoid any unnecessary configuration loss or other issues. It is recommended to perform a configuration save operation before carrying out the factory reset.

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System Manage	System Recovery
System Config	Restore to factory settings and restart the system.
VLAN	· · · · · · · · · · · · · · · · · · ·
QoS	Reset
Security	
Tools	Attention:
System Upgrade	
Ping Tool	After the system is restored, the local configuration will be lost, and all configurations will be restored to the default configuration. The default in
Backup Restore	address should be manually switched to in order to acess the webpage after reset.
Save Settings	
System Reboot	
Logout	

6.5 Tools – Save Settings

All configuration modifications for the functions must be completed before the device is powered off, and a configuration save operation needs to be performed at that time.

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System Manage Save configu	ation
System Config VLAN CoS Security Tools System Upgrado Ping Tool Backup Restore System Reset Save Settings System Reset Logout	Click Save button, all changes made in this device will be saved

6.6 Tools – System Reboot

Device restart function. Please note that before performing the device restart operation, please ensure that the device configuration has been saved to avoid any unnecessary loss of configuration.

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System Manage System Config VLAN QoS Security Tools System Upgrade Ping Tool Backup Restore System Reset Save Settings System Reset Save Settings System Reset	System reboot Click Reboot bution to restart the device Reboot					

Chapter 7 Console

This switch is equipped with a Console interface, which provides simple maintenance and query functions for the switch. It is mainly applied in the following scenarios: If the IP address of the switch is forgotten, it can be queried through the Console port;

As shown in the figure below:

```
Username:admin
Password:*****
Login successful. Welcome!
Switch> help
help: Lists all the registered commands
debug: enter debug shell mode
tftp-fw-upgrade <server-ip> <firmware-name>: upgrade image using TFTP
reset: reset system
```

Switch> 📕

```
debug#help
help: Lists all the registered commands
memrl address: read 4 bytes from register or memory at the address
memwl address value: write 4-byte value to register or memory at the address
ip_get: Show IP address
sysmac_get: Show System mac
model_get: Show Model string
```

ltem	Description	Notes
Switch>help	List all the configurable	
	commands	
Switch>debug	Debugging commands can	
	offer IP address query and	
	MAC address query functions.	
Switch>tftp-fw-	system upgrade	
upgrade		
Switch>reset	Soft restart command	
Debug>help	List all the configurable	
	commands	

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