

ALL8089WPoE 8 Port Web Smart Switch

User's Manual

ALLNET GmbH - www.allnet.de

Ver:1.3.3 Web Smart Switch Configure

Please follow the steps to configure this Web Smart switch.

Step 1: Use a twisted pair cable to connect this switch to your PC.

Step 2: Set your PC's IP to 192.168.2.xx.



Step 3: Open the web browser (like IE...), and go to 192.168.2.1 Then you will see the login screen.



ID and the password: admin

Step 4: After the authentication procedure, the home page shows up. Select one of the configurations by clicking the icon.

- Administrator
- Port Management
- VLAN Setting
- Per Port Counter
- QoS Setting
- Security
- Spanning Tree
- Trunking
- Backup/Recovery
- Miscellaneous
- Logout

ALL8089WPoE 8 Port Web Smart Switch – User's Manual

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Administrator: Authentication Configuration

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- 1. Change the user name and the password.
- 2. Click "Update" to confirm the new change.

Now, you can use the new user name and the password.

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Administrator: System IP Configuration

- 1. Change the IP address: type the new IP address or select DHCP IP configuration.
- Click "Update" to confirm the new change.
 "Update Successfully!!" will be shown on the screen.
- 3. Click "Reboot" to use new setting to login

Now, the setting of "System IP Configuration" is finished.

Administrator: System Status

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MAC address and system version will be shown on the screen.

- 1. Change the new comment of this switch by typing the new comment.
- Click "Update" to confirm the new change.
 "Update Successfully!!" will be shown on the screen.
- 3. Click "Reboot" to use new setting to login

Now, the setting of "System Status" is finished.

Administrator: Load Default Setting

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1. Click "Load" to back to the factory default setting. **Note: Recover switch default setting excluding the IP address, User name and Password.

Now, the default is loaded.

Administrator: Firmware Update

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Follow the instruction on the screen to update the new firmware.

Please contact with your sales agents to get the latest firmware information.

Administrator: Reboot Device

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1. Click "Confirm" to reboot the device.

Now, the setting of "Reboot Device" is finished.

Port Management: Port Configuration

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Select the "Port No." - configure the mode below:

- "Auto" enable/disable Auto-Negotiation.
 "Speed" 10M or 100M mode for the selected port.
- 2. "Duplex" Full or Half-Duplex mode for the selected port.
- 4. "Pause" enable/disable for the selected port.
- 5. "Backpressure" enable/disable for the selected port.
- 6. "Tx Capability (Cap) " enable/disable for the selected port.
- 7. "Addr. Learning" enable/disable for the selected port.

Now, the setting of "Port Configuration" is finished.

Port Management: Port Mirroring

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Port Mirroring is used to mirror traffic, RX, TX or TX&RX, from Source port to Destination port for analysis.

- 1. Select the Destination port: you can choose port 1 to port 8
- 2. Select the Source port: by clicking the checking box of the port.
- 3. Click "Update" to save the setting.

Now, the setting of "Port Mirroring" is finished.

Port Management: Bandwidth Control

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- 1. Select the "Port No.": you can choose port 1 to port 8
- 2. "TX Rate Value": set the transmission rate of the selected port. (0:Full speed; 1~255:Specified bandwidth.)
- 3. "RX Rate Value": set the receiving rate of the selected port. (0: Full speed; 1~255: Specified bandwidth.)
- 4. "Resolution" : Low: 32 kbps / High: 512 kbps
- 5. Click "Update" to confirm the setting or "LoadDefault".

Now, the setting of "Bandwidth Control" is finished.

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Port Management: Broadcast Storm Control

- 1. "Threshold" Set the threshold from 1~63.
- 2. "Enable Port" per port to define the status of broadcast packets.
- 3. Click "Update" to confirm the setting.

Now, the setting of "Broadcast Storm Control" is finished.

Port Management: PoE Configuration

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Remote access and monitor the attached PD (Powered Device) status by using Enable/Disable function.

- 1. **Enable:** POE of the port is able to supply power to the attached PD (Powered Device)
- 2. **PSE Current & Minimum Output Power:** The status of the port current and minimum output power.
- 3. **POE class**: each POE port will detect the class of the attached PD (Powered Device)
- 4. Click "Update" to confirm and finish the setting.

Now, the setting of "PoE Configuration" is finished.

VLAN Setting: VLAN Mode

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There are two VLAN modes : Port Based VLAN and Tagged VLAN.

Click "Change VLAN mode" to select the mode.

**If the Port Based VLAN function is enabled, Multi to 2 setting and tag Based VLAN will be disabled automatically.

Now, the setting of "VLAN Mode" is finished.

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VLAN Setting: VLAN Member Setting (Port Based)

You can select a port group.

- 1. Click the port numbers: which you want to put them into the selected VLAN group.
- 2. Click "Update" to confirm and finish the setting.
- 3. Click "LoadDefualt" to back to the original factory setting.

Now, the setting of "VLAN Mode" is finished.

VLAN Setting: Multi to 2 Setting

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This is a special design for easily setting the switch VLAN into "VLAN Per Port".

- 1. Choose "Destination Port No".
- 2. Choose "Disable Port"
- 3. "Disable Port" choose the port which you don't want to use
- 4. Click "Update" to confirm and finish the setting.

After this setting, all ports can only connect to destination ports.

Per Port Counter: Counter Category

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You can read the transmitting and receiving packet of the connecting port.

Click "Refresh" or "Clear" the data.

QoS Setting: Priority Mode

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There are three Priority Modes to select.

- 1. "First-in-First-Service" the first receiving packet will be firstly transmitted.
- 2. "All-High-before-Low" All packets will be assigned to either high priority queue or low priority queue.
- 3. "4 Queue WRR (Weight-Round-Robin)" set the ratio of the transmitting packet.
- 4. Click "Update" to confirm and finish the setting.

QoS Setting: Class of Service

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You can set QoS mode of per port by different bases.

TCP/UDP > TP TPS/DS > 802.1P > Physical port

 "TCP/UDP Port" – Q1 ~ Q4 options are effective for the selected physical port only. "Drop" option is the global setting for all physical ports.

The packet queue will be transferred based on the number of "4 Queue WRR" on **QoS Setting: Priority Mode.**

**WRR -Q1/Q2/Q3/Q4

- **"Drop" packets will be dropped.
- 2. "IP TOS/DS" "Priority Setting": Q1 ~ Q4; "IP TOS/DS Port Setting" It means the packets with special IP will be firstly transmitted.
- 3. "802.1p" Priority mapping table as the screen shown.

- 4. "Physical port" you can select the port which you want to configure as Q1~Q4 priority.
- 5. Click "Update" to confirm and finish the setting.

Now, the setting of "Class of Service" is finished.

Security: MAC Address Configuration

8-port 10/100Mbps Ether	net Switch	2468 1357		
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l Setting Fort Counter	Port No.		MAC Address	
Setting arity • <u>BHC Address</u>) Elindini • TCPI/OP Filter	1			
aning Tree Kana		Select Port 0 v Bi	nding Disəble 🖌 Update	
kupRecovery				
sellaneous	Fort No.	Pilter Statun	Port No.	Filter Status
out	1	Disable	5	Disable
	2	Disable	6	Disable
	3	Disable	7	Disable
	4	Disable	8	Disable

Set special MAC address to activate on the selected port

- 1. Choose "Select Port" port 1~8
- 2. "Binding" "Enable": allow the packet with the specified source MAC address to enter this port.
- 3. Click "Update" to confirm and finish the setting.

Now, the setting of "MAC Address Filter" is finished.

Security: TCP_UDP Filter Configuration

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8-port 10/100Mbp	os Ethernet Switc	h	2 4 6 8 		
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		INEWS	DSNTP	□ NetBIOS	□IMAP
	Protocol	SNMP	HTTPS	XRD_RDP	DHCP
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			0	Julie	
		TELNET O FTP CIL C	Note: The description of Se :Terr, rer, rer, rer, rer, P 2 Example Senthauen	Case WAN port is shown below.	T Server, Server Server Server Server Server

You can enable or disable this function of per port.

If the "Function Enable" is "Enable", please kindly check the following setting:

- 1. "Port Filtering Rule" -
 - "Deny": the outgoing packets to the selected port with selected protocol will be dropped and other protocols will be forwarded.
 - "Allow": the selected protocol will be forwarded and other protocol will be dropped.
- 2. "Secure Port" choose secure ports which you want.

**Note 1:

- a. The secure WAN port should be set at the physical port which is connected to the server.
- b. Once this function is enabled, the switch will check the destination TCP/UTP port number at the outgoing direction of the secure WAN port.

If the condition matches, this packet will be dropped or forwarded.

**Note 2: The description of Secure WAN port is shown on the bottom of this screen.

- 3. "Protocol" choose protocols which you want.
- 4. Click "Update" to confirm and finish the setting.

Now, the setting of "TCP/UDP Filter Configuration" is finished.

Spanning Tree: STP Bridge Settings

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8-port 10/100Mbps Ethernet Switch				
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> VLAN Setting STP Bridge Status				
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RSTP 32768:00 03 CE 01 01 46 2 20	15 l'm th	e root bridge!		
		· · · · 著 四	18491	

This setting is to avoid the loop network.

- 1. Select the "STP Mode"- choose "Disable", "STP" or "RSTP"
- 2. Set the "Bridge Priority" Set the priority of the Bridge
- 3. Set the period of "Hello Time" packet Provides the time period between root bridge configuration messages.
- 4. Set the "Max Age" Indicates when the current configuration message should be deleted.
- 5. Set the "Forward Delay" time Provides the length of time that bridges should wait before transitioning to a new state after a topology change. (If a bridge transitions too soon, not all network links might be ready to change their state, and loops can result.)
- 6. Click "Update" to confirm and finish the setting.

Now, the setting of "STP Bridge Settings" is finished.

Spanning Tree: STP Port Settings

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8-port 10/100Mbps Ethe	rnet Switch			$ \begin{array}{c} 2 4 6 8 \\ 1 3 5 7 \\ 1 3 5 7 \end{array} $			
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> VLAN Setting							
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> QoS Setting	Fort No.	Priority	RPC (Root B	Path Cost)			
Security		(0~240)	(1~2000)				
Spanning Tree	~	~	-				
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	1	Auto(200000)	0x30	<u> </u>	Disable		
	2	Auto(200000)	01290		Disable		
	3	Auto(200000)	0x30		Disable		
	4	Auto(200000)	01290		Disable		
	5	Auto(200000)	0x30		Disable		
	6	Auto(200000)	0290	1 - 1	Disable		
	7	Auto(200000)	0x30		Disable		
	8	Auto(200000)	01290	Designated Fort	Forwarding		

- 1. Choose "Port No." : Port 1 ~ Port 8
- 2. Choose "Priority": 0~ 240

3. "RPC" = Root Path Cost: 0 = AUTO. When the loop is found, the STP/RSTP will calculate the cost of its path.

Trunking: Link Aggregation Settings

🖉 SmartSwitch Web-Bas	e Controller							a sk	rpe •	💁 首页(M) • 🖶	列印(E)	- (1) HTM(1)	• ◎ 工具()
8-port 10/100Mbps E	thernet Switch					6 8 5 7								
inistrator Hanagement	Trunking													
Port Counter	System Pri	iority			1		(1~655	35)						
Setting	Link Aggregation	Algorith	m			MACS	&Dst 👻							
arity			.9	kmit										
eng • Lint Approalion Satinas supRecovery citianeous sut	enabled(can't Forward/Rec port.	eive) until	the post	can fini	ih LACP	procedu	re with	its link ;	artner					
			Link G	roup 1			Link G	roup 2						
	Member	P1	₽2 	P3	₽4 	15 12	P6	17 12	P8					
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	State Type Operation Key		Disk	e -	35)	2	Disa) LAC	8 ¥ (1~655	35)					
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	State Type Operation Key Time Out Activity	1	Disk LAC Short Tim Pasto St	e	35)	2	Disal LAC Short The Plass	ke ♥ ₽ ♥ (1~655 ≠Out ♥ ₩ ♥	35)			때 볼 🖾 🕕)≣, ≪ 9) †	

There are two groups to choose and max. for each group is 4 ports.

Click "Submit" to confirm and finish the setting.

"State" – Enable / Disable

"Type" – LACP/ Static

"Activity" – Active/Passive: Both switches use "LACP" to configure the Trunk, at least one of them should be "Active"

Backup/Recovery

Improveduation Improve	SmartSwitch Web-Base Co	ntroller - Windows Internet Explorer					2
Be port 10/100Mbpe Ethernet Switch Image: Configuration Backup/Recovery Ammentment Sectors Southy Backup/Switch -> PC) Please check "Download" to download EEPROM conterts. Download Sectors Backup (PC Switch) Sectors Sectors: Monotaments Image: Imag	 Market SmartSwitch Web-Base (Controller	Skype	• 🏠 首頁(14)	• 曼列印(E)	• 🗋 網頭(E) •	③工具(0) •
Administration Configuration Backup/Recovery VAN Setting Backup/Sectorery VAN Setting Piesse check "Download" to download EEPROM conterts: Download Setting Piesse check "Download" to download EEPROM conterts: Download Setting Recovery(PCSwitch) Setting Bickup/Sectorery Sete the image file: Logod Plassovid:	8-port 10/100Mbps Eth	2 4 6 8 ernet Switch					
	Admensionator Port Management VLAN Setting - An Port Construc- - Construc- - Construc- - Construc- - Security - Security - Security - Macculaneous - Legoot	Configuration Backup/Recovery Backup(Switch→PC) Please check "Download" to download EEPROM conterts. Download Recovery(PC→Switch) Select the image file: Taseword: Update	a .			I = 0 ; ;	

Follow the instruction on the screen to update the original setting.

"Backup" - Click "Download" to confirm the setting.

"Recovery" – select a file and key in the password \rightarrow Click "Update" to confirm the setting.

Miscellaneous: Miscellaneous Setting

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8-port 10/100Mbps Ethern	net Switch		
dministrator ort Management	Miscellaneous Setting		
LAN Setting er Port Counter	Output Queue Aging Time		
GoS Setting Socurity	Aging time Deable v ms	The output queue aging function allows the administrator to select the aging time of a packet stored in the output queue. A packet stored in the output queue for a long time will lower the free packet buffer, resulting in the poor utilization of the buffer and the poor switch performance.	
lanning tree runking	VLAN Striding		
BackupRecovery Miscellaneous	VLAN Striding	When this function is enabled, the switch will forward a uni-cast packet to the destination port. No matter whether the destination port is in the same VLAN group.	
Logout	IGMP Snooping V1 & V2		
	IGMP Snooping Diskle 🛩	IGMP Snooping V1 & V2 function enable	
	Upixe		
		- 四國的傳筆 和 5	

- 1. "Output Queue Aging Time" You can set queue aging time into different milliseconds or disable this function.
- 2. "VLAN Striding" You can enable/disable this function.
- 3. "IGMP Snooping V1 & V2" You can enable/disable this function.
- 4. Click "Update" to confirm and finish the setting.

Logout: You can click "Logout" to logout.



10.03.2010

EC – Declaration of conformity

For the following product

ALL8089WPoE 8 Port 10/100TX Desktop Web managed

This device complies with the essential requirements of the EMC Directive 2004/108/EC as amended by Directives 92/31 EEC and 93/68/EEC with CE marking requirement. The following test methods have been applied in order to prove presumption of

conformity with the essential requirements of the EMC Directive 2004/108/EC as amended by Directives 92/31 EEC and 93/68/EEC.

This equipment meets the following conformance standards:

EN: 55022:2006: Class B

61000-3-2: 2006 61000-3-3: 2005

EN: 55024:2003:

61000-4-2:2001	61000-4-3:2006	61000-4-4:2004
61000-4-5:2005	61000-4-6:2001	61000-4-11:2004

This equipment is intended to be operated in all countries. This declaration is made by

ALLNET Computersysteme GmbH Maistraße 2 82110 Germering Germany

and can be downloaded from http://www.allnet.de/ce-certificates/

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Manufacturer: ALLNET GmbH



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