



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

User's Manual

(DN-95312)



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

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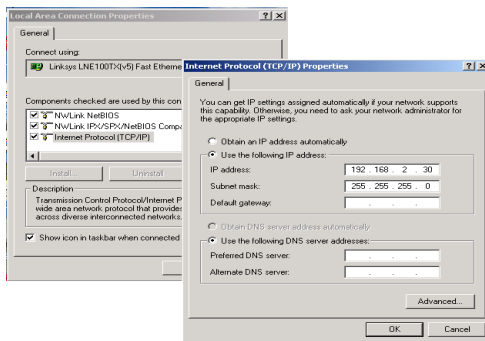
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Web Smart Switch Configure

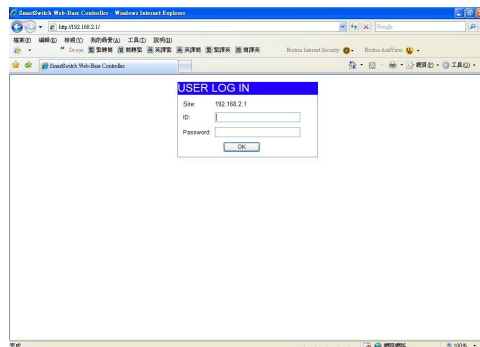
Please follow the steps to configure this Web Smart switch.

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.



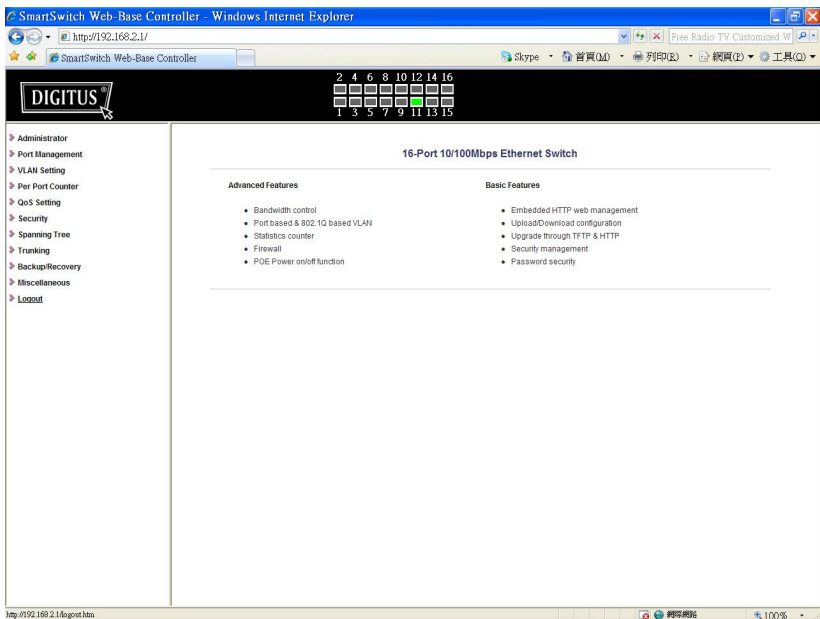
ID and the password: admin



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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





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Administrator: Authentication Configuration

The screenshot shows the DIGITUS web interface for Authentication Configuration. The browser address bar shows <http://192.168.2.1/>. The page title is "SmartSwitch Web-Base Controller". The interface includes a navigation menu on the left with options like Administrator, Authentication Configuration, System IP Configuration, System Status, Load default setting, Firmware Update, Reboot Device, Port Management, VLAN Setting, Per Port Counter, QoS Setting, Security, Spanning Tree, Trunking, Backup/Recovery, Miscellaneous, and Logout. The main content area is titled "Authentication Configuration" and contains a table with the following data:

Setting	Value
Username	<input type="text" value="admin"/> max:15
Password Confirm	<input type="password" value="*****"/> max:15

Below the table is an "Update" button. A note states: "Note: Username & Password can only use 'a-z','A-Z','0-9','_','-','+',' ','#','@'." The browser status bar at the bottom shows the URL <http://192.168.2.1/verPAGES.htm> and a 100% zoom level.

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

The screenshot shows the DIGITUS Web-Base Controller interface in a Windows Internet Explorer browser. The page title is "System IP Configuration". On the left is a navigation menu with categories like Administrator, Port Management, VLAN Setting, etc. The main content area displays a table for IP configuration settings.

Setting	Value
IP Address	[92] , [68] , [2] , [1]
Subnet Mask	[255] , [255] , [255] , [0]
Gateway	[92] , [68] , [2] , [34]
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DHCP

Below the table is an "Update" button and a "Note" section:

Note:
Invalid IP Address
"127.0.0.1",
"127.*.*.*",
"0.0.0.0",
"*.*.*.0",
"*.*.*.255",
and Greater than 223.*.*.*

1. Change the IP address: type the new IP address or select DHCP IP configuration.
 2. Click "Update" to confirm the new change.
"Setting Process OK!!" will be shown on the screen.
- Now, the setting of "System IP Configuration" is finished.



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Administrator: System Status

The screenshot shows the 'System Status' page of the DIGITUS Web-Base Controller. The page includes a navigation menu on the left and a main content area. The main content area displays the following information:

MAC Address	00:03:cec0:1:09:a4
Number of Ports	16
System Version	V100414
Idle Time Security	Idle Time: 0 (1-30 Minutes)

Below the table, there is a section for 'Idle Time Security' with the following options:

- Idle Time Security
- Auto Logout(Default).
- Back to the last display.

An 'Update' button is located at the bottom of the form.

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

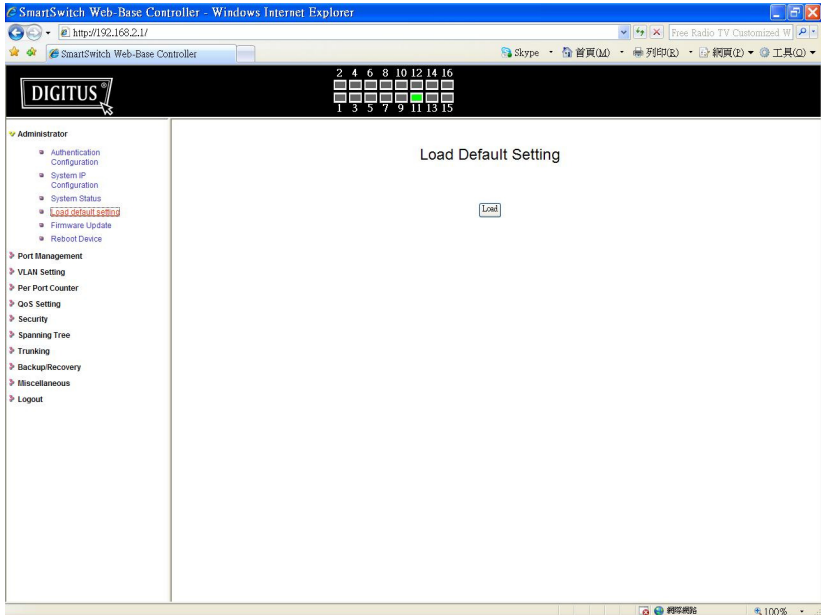
1. Change the new comment of this switch by typing the new comment.
2. Click “Update” to confirm the new change.

Now, the setting of “System Status” is finished.



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Administrator: Load Default Setting



Click “Load” to back to the factory default setting.

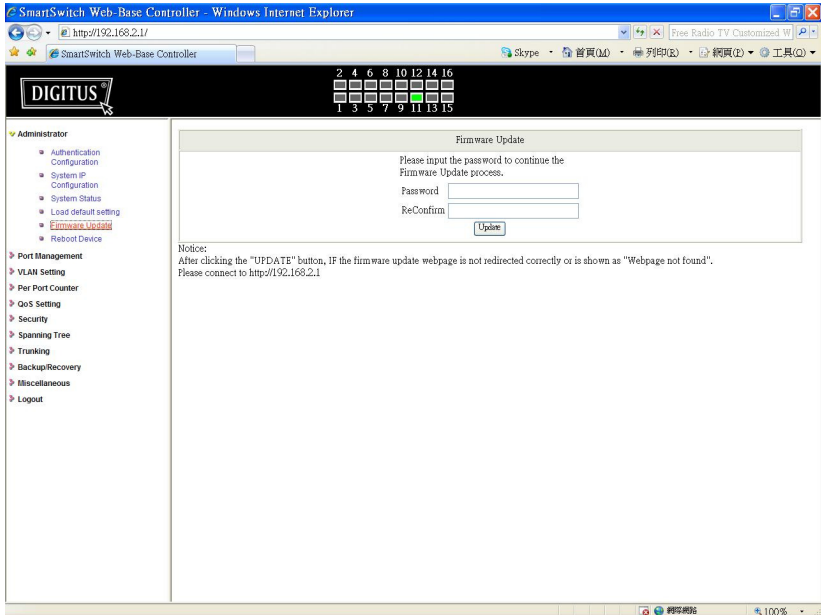
**Note: Recover switch default setting excluding the IP address, User name and Password.

Now, the default is loaded.



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Administrator: Firmware Update



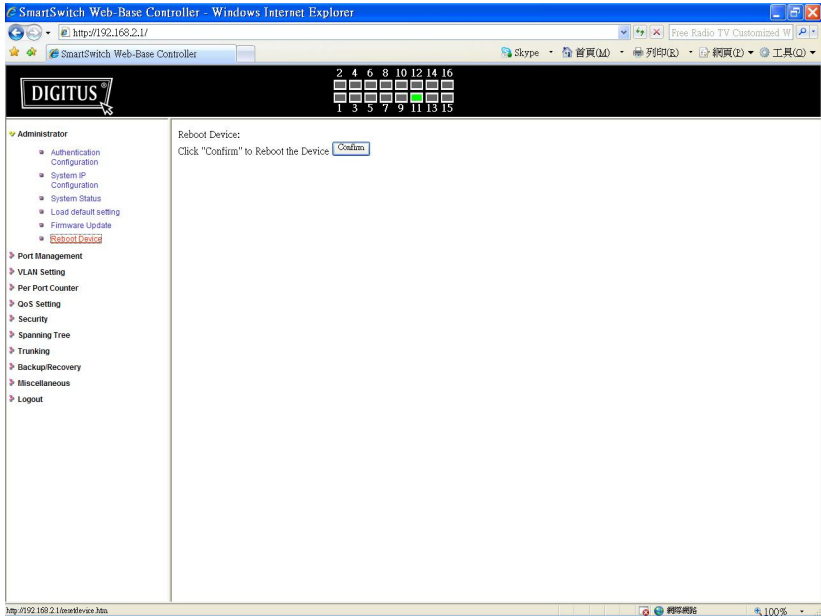
Follow the instruction on the screen to update the new firmware.

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



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Administrator: Reboot Device



1. Click “Confirm” to reboot the device.

Now, the setting of “Reboot Device” is finished.



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Port Management: Port Configuration

Port Configuration

Function: [Auto] Speed: [100M] Duplex: [Full] Pause: [On] Backpressure: [On] Tx Capability: [On] Addr. Learning: [On]

Select Port No. [01] [02] [03] [04] [05] [06] [07] [08] [09] [10] [11] [12] [13] [14] [15] [16] [Update]

Port	Current Status					Setting Status					
	Link	Speed	Duplex	FlowCtrl	Auto-Nego	Speed	Duplex	Pause	Backpressure	Tx Cap	Addr. Learning
1	---	---	---	---	Auto	100M	Full	On	On	On	On
2	---	---	---	---	Auto	100M	Full	On	On	On	On
3	---	---	---	---	Auto	100M	Full	On	On	On	On
4	---	---	---	---	Auto	100M	Full	On	On	On	On
5	---	---	---	---	Auto	100M	Full	On	On	On	On
6	---	---	---	---	Auto	100M	Full	On	On	On	On
7	---	---	---	---	Auto	100M	Full	On	On	On	On
8	---	---	---	---	Auto	100M	Full	On	On	On	On
9	---	---	---	---	Auto	100M	Full	On	On	On	On
10	---	---	---	---	Auto	100M	Full	On	On	On	On
11	●	100M	Full	On	Auto	100M	Full	On	On	On	On
12	---	---	---	---	Auto	100M	Full	On	On	On	On
13	---	---	---	---	Auto	100M	Full	On	On	On	On
14	---	---	---	---	Auto	100M	Full	On	On	On	On
15	---	---	---	---	Auto	100M	Full	On	On	On	On
16	---	---	---	---	Auto	100M	Full	On	On	On	On

Select the “Port No.” - configure the mode below:

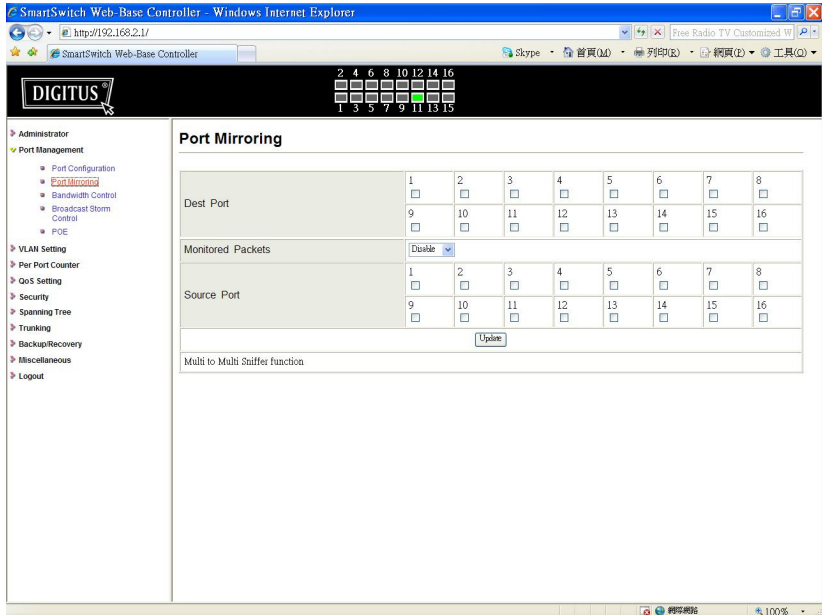
1. “Auto-Nego” - enable/disable Auto-Negotiation.
2. “Speed” - 10M or 100M mode for the selected port.
3. “Duplex” - Full or Half-Duplex mode for the selected port.
4. “Pause” - enable/disable for the selected port.
5. “Backpressure” - enable/disable for the selected port.
6. “Tx Cap (Capability)” -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

Now, the setting of “Port Configuration” is finished.



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Port Management: Port Mirroring



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 16
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.



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Port Management: Bandwidth Control

Bandwidth Control

Port No. Tx Rate Value Bandwidth = resolution. (0~19/195/255)
0: Full speed. 1~19/195/255: Specified bandwidth. Rx Rate Value Bandwidth = resolution. (0~19/195/255)
0: Full speed. 1~19/195/255: Specified bandwidth.

Resolution resolution.
Low: 32Kbps (1) Rate value: 1~255.
High: 512Kbps (2) When link speed is 10M and the resolution is 512Kbps, the Rate value should be 1~19.
(3) When link speed is 100M and the resolution is 512Kbps, the Rate value should be 1~195.
All ports use the same bandwidth resolution.

If the link speed of selected port is lower than the rate that you setting, this system will use the value of link speed as your setting rate.

Port No.	Tx Rate(Kbps)	Rx Rate(Kbps)	Link Speed	Port No.	Tx Rate(Kbps)	Rx Rate(Kbps)	Link Speed
1	Full Speed	Full Speed	---	9	Full Speed	Full Speed	---
2	Full Speed	Full Speed	---	10	Full Speed	Full Speed	---
3	Full Speed	Full Speed	---	11	Full Speed	Full Speed	100M
4	Full Speed	Full Speed	---	12	Full Speed	Full Speed	---
5	Full Speed	Full Speed	---	13	Full Speed	Full Speed	---
6	Full Speed	Full Speed	---	14	Full Speed	Full Speed	---
7	Full Speed	Full Speed	---	15	Full Speed	Full Speed	---
8	Full Speed	Full Speed	---	16	Full Speed	Full Speed	---

1. Select the “Port No.”: you can choose port 1 to port 16
 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

The screenshot shows the DIGITUS SmartSwitch Web-Base Controller interface in a Windows Internet Explorer browser. The page title is "SmartSwitch Web-Base Controller" and the URL is "http://192.168.2.1/". The interface includes a navigation menu on the left with options like Administrator, Port Management, VLAN Setting, Per Port Counter, QoS Setting, Security, Spanning Tree, Trunking, Backup/Recovery, Miscellaneous, and Logout. The main content area is titled "Broadcast Storm Control" and contains a table for configuring settings for 16 ports.

Threshold	1~63															
Enable Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This value indicates the number of broadcast packet which is allowed to enter each port in one time unit. One time unit is 500 us for 100Mbps speed and 5000us for 10Mbps speed

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.



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Port Management: PoE Configuration

POE Configuration

Port	01	02	03	04	05	06	07	08
Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PSE Current	No Load	No Load	No Load	No Load	No Load	No Load	No Load	No Load
Minimum Output Power	---	---	---	---	---	---	---	---
POE Class	---	---	---	---	---	---	---	---
Port	00	10	11	12	13	14	15	16
Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PSE Current	No Load	No Load	No Load	No Load	No Load	No Load	No Load	No Load
Minimum Output Power	---	---	---	---	---	---	---	---
POE Class	---	---	---	---	---	---	---	---

Update: Update the power control function.
Enable[☑]:Power On
Enable[☐]:Power Off

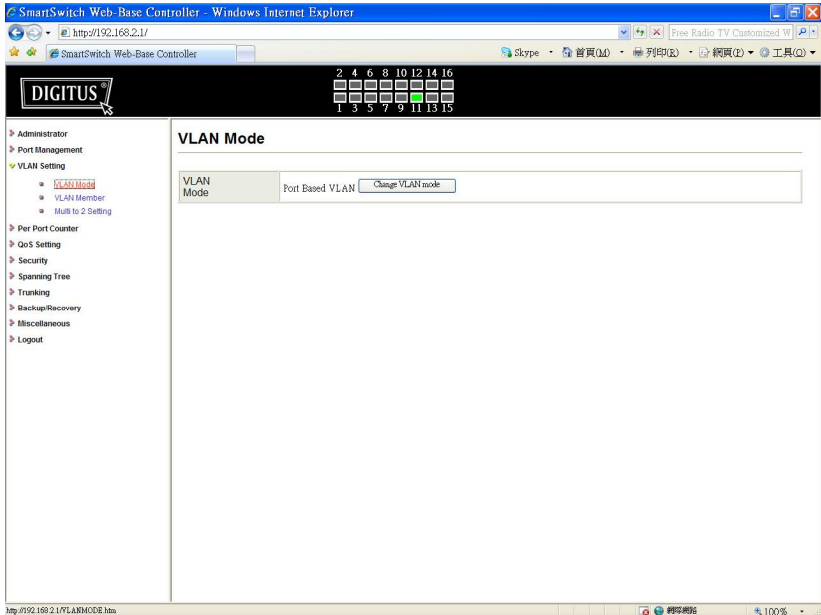
Remote access and monitor the attached PD (Powered Device) status by using Enable/Disable function.

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.



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VLAN Setting: VLAN Mode



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)

The screenshot shows the DIGITUS web interface for configuring VLAN settings. The main content area is titled "VLAN Member Setting (Port Based)". It features a table for selecting ports and a "VLAN MEMBER" table for assigning ports to VLANs.

VLAN Member Setting (Port Based)

Port	01	02	03	04	05	06	07	08
Dest PORT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Member Selection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dest PORT	09	10	11	12	13	14	15	16
Member Selection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Buttons: [Update] [LoadDefault]

VLAN MEMBER

Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Buttons: [Update] [LoadDefault]

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 "LoadDefault" to back to the original factory setting.
- Now, the setting of "VLAN Mode" is finished.



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VLAN Setting: Multi to 2 Setting

The screenshot shows the DIGITUS Web-Base Controller interface in a Windows Internet Explorer browser. The page title is "Multi to 2 Setting". The configuration table is as follows:

Destination PortNo	Home VLAN 1: 01															
	Home VLAN 2: 01															
Current Setting	Port: & -															
Disable Port	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Below the table is an "Update" button. A diagram titled "VLAN Configuration" shows a network topology with four nodes (1, 2, 3, 4) and a group of nodes labeled "N". Node 1 is connected to nodes 2, 3, and 4. Node 2 is connected to nodes 1, 3, and 4. Node 3 is connected to nodes 1 and 2. Node 4 is connected to nodes 1 and 2. Node N is connected to nodes 3 and 4.

1. A example for Multi-to-2 structure

2. The original setting of the VLAN Group will be cleared and replaced by this special structure if you enable this function. On the other hand, if you set the VLAN Group again, this special structure will be cleared and replaced by your newest setting.

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.



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Per Port Counter: Counter Category

Counter Category

Counter Mode Selection: Receive Packet & Transmit Packet

Port	Receive Packet	Transmit Packet
01	0	0
02	0	0
03	0	0
04	0	0
05	0	0
06	0	0
07	0	0
08	0	0
09	0	0
10	0	0
11	3167	2508
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0

Note:
If Counter Mode is switched from the old one to a new one, the counter value of the old one will be discarded. And the counter value of the new one will be counted from zero.

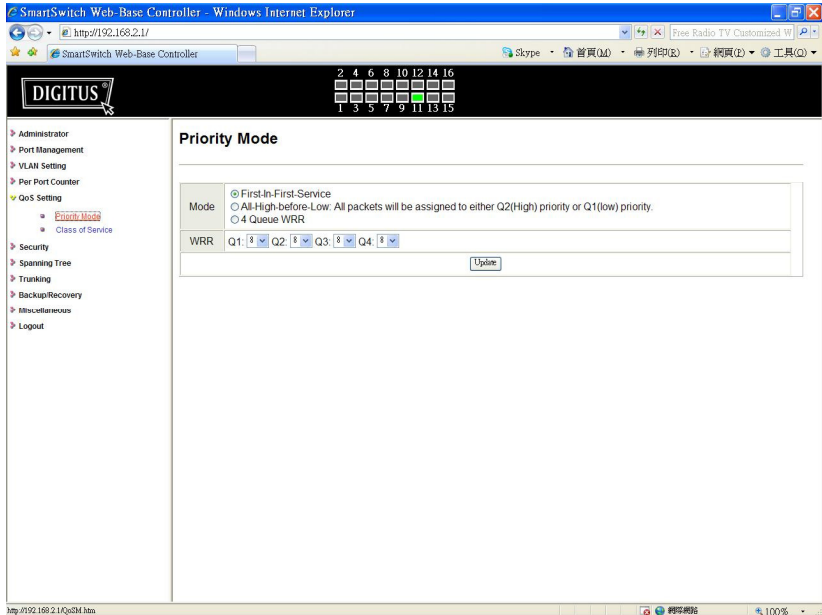
You can read the transmitting and receiving packet of the connecting port.

Click “Refresh” or “Clear” the data.



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QoS Setting: Priority Mode



There are three Priority Modes to select.

1. “First-in-First-Out” - the first receiving packet will be firstly transmitted.
2. “All-High-before-Low” – All packets will be assigned to either Q2(high) priority queue or Q1(low) priority queue.
3. “4 Queue WRR (Weight-Round-Robin)” - set the ratio of the transmitting packet for the low priority to high priority.
4. Click “Update” to confirm and finish the setting.



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QoS Setting: Class of Service

SmartSwitch Web Base Controller - Windows Internet Explorer

IP: 192.168.2.1/

SmartSwitch Web Base Controller

2 4 6 8 10 12 14 16
1 3 5 7 9 11 13 15

Class of Service

The switch treats TCP/UDP, IP TOS/DS, 802.1p and physical port CoS scheme in the following priority.
 TCP/UDP > IP TOS/DS > 802.1p > Physical port.
 This means TCP/UDP CoS will override all other settings.

(1) TCP/UDP port

Note:
 (1) Q1 - Q4 options are effective for the selected physical port only.
 (2) "Drop" option is the global setting for all physical ports.

Protocol	Q1	Q2	Q3	Q4	Drop
FTP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SSH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TELNET	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SMTP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DNS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TFTP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HTTP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
POP3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NEWS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SNTP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NBNS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BMAP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SNMP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HTTPS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MSN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
XRD_BDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
QQ	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ICQ	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Yahoo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BOOTP/DHCP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User-defined A TCP/UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User-defined B TCP/UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User-defined C TCP/UDP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Note: These user-defined TCP/UDP port are the same as that used in TCP/UDP filter.

User-defined Port Range (8053-1)	User-defined A Port(1-255)	User-defined B Port(1-255)	User-defined C Port(1-255)

The TCP/UDP port will be checked on the following physical port.

Port	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The Class of Service for TCP/UDP port number above the network administrator to assign the specific application to a priority queue.

(2) IP TOS/DS

IP TOS/DS Priority Setting: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Other Values

IP TOS/DS Port Setting: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Other Values

(3) 802.1p

For 802.1p priority field, the switch utilizes the following priority mapping table.

0 and 7 are mapped to the "Q1" priority queue.
 4 and 5 are mapped to the "Q2" priority queue.
 6 and 3 are mapped to the "Q3" priority queue.
 1 and 2 are mapped to the "Q4" priority queue.

Port No/Mode	802.1p	Port No/Mode	802.1p
1	<input type="checkbox"/>	9	<input type="checkbox"/>
2	<input type="checkbox"/>	10	<input type="checkbox"/>
3	<input type="checkbox"/>	11	<input type="checkbox"/>
4	<input type="checkbox"/>	12	<input type="checkbox"/>
5	<input type="checkbox"/>	13	<input type="checkbox"/>
6	<input type="checkbox"/>	14	<input type="checkbox"/>
7	<input type="checkbox"/>	15	<input type="checkbox"/>
8	<input type="checkbox"/>	16	<input type="checkbox"/>

(4) Physical port

Port	Q1	Q2	Q3	Q4
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

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

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

1. “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.



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

Security: MAC Address Configuration

The screenshot shows the DIGITUS SmartSwitch Web-Base Controller interface. The main content area is titled "MAC Address Configuration". It features a form for configuring MAC addresses for a selected port (Port No. 1). The form includes input fields for the MAC address and a "Read" button. Below the form is a "Select Port" dropdown menu with "01" selected, and "Binding" and "Disable" options. At the bottom, there is a table showing the filter status for all 16 ports.

Port No.	Filter Status	Port No.	Filter Status
1	Disable	9	Disable
2	Disable	10	Disable
3	Disable	11	Disable
4	Disable	12	Disable
5	Disable	13	Disable
6	Disable	14	Disable
7	Disable	15	Disable
8	Disable	16	Disable

Set special MAC address to activate on the selected port

1. Choose "Select Port" – port 1~16
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.



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

Security: TCP_UDP Filter Configuration

TCP/UDP Filter Configuration

Function Enable: **Disable**

Deny

"Deny" means the outgoing packets to the selected port with selected protocol will be dropped and other protocols will be forwarded.
"Allow" means the selected protocol will be forwarded and other protocol will be dropped.

Port Filtering Rule

Note:
1. The secure WAN port should be set at the physical port which is connected to the server.
2. Once this function is enabled, the switch will check the destination TCP/UDP port number at the outgoing direction of the secure WAN. If the condition matches, this packet will be dropped or forwarded.

<input type="checkbox"/> Port01	<input type="checkbox"/> Port02	<input type="checkbox"/> Port03	<input type="checkbox"/> Port04
<input type="checkbox"/> Port05	<input type="checkbox"/> Port06	<input type="checkbox"/> Port07	<input type="checkbox"/> Port08
<input type="checkbox"/> Port09	<input type="checkbox"/> Port10	<input type="checkbox"/> Port11	<input type="checkbox"/> Port12
<input type="checkbox"/> Port13	<input type="checkbox"/> Port14	<input type="checkbox"/> Port15	<input type="checkbox"/> Port16

<input type="checkbox"/> FTP	<input type="checkbox"/> SSH	<input type="checkbox"/> TELNET	<input type="checkbox"/> SMTP
<input type="checkbox"/> DNS	<input type="checkbox"/> TFTP	<input type="checkbox"/> HTTP	<input type="checkbox"/> POP3
<input type="checkbox"/> NEWS	<input type="checkbox"/> SNT	<input type="checkbox"/> NetBIOS	<input type="checkbox"/> IMAP
<input type="checkbox"/> SNMP	<input type="checkbox"/> HTTPS	<input type="checkbox"/> XRD_RDP	<input type="checkbox"/> BOOTP/DHCP
<input type="checkbox"/> User-defined A TCP/UDP	<input type="checkbox"/> User-defined B TCP/UDP	<input type="checkbox"/> User-defined C TCP/UDP	

Update

Note:The description of Secure WAN port is shown below.

Example: Set the secure WAN port at P5

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” –



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

“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/UDP 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.



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

Spanning Tree: STP Bridge Settings

STP Bridge Settings

STP Bridge Status				
STP Mode	Bridge Priority	Hello Time	Max Age	Forward Delay
<input type="radio"/>	(0~61440)	(1~10 Sec)	(6~40 Sec)	(4~30 Sec)
<input type="radio"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Submit"/>				

Note: 2(Forward Delay) >= Max Age
Max Age >= 2*(Hello Time)*

STP Bridge Status					
STP Mode	Bridge ID	Hello Time	Max Age	Forward Delay	Root ID
RSTP	32768:00 03 CE 01 09 A4	2	20	15	I'm the root bridge!

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. After a topology changed, bridges should be waited before transitioning to a new state (If a bridge transition is very fast, some network links might not be ready to change their states. Under this circumstance, loops might be occurred.)
 6. Click “Update” to confirm and finish the setting.
- Now, the setting of “STP Bridge Settings” is finished.



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

Spanning Tree: STP Port Settings

The screenshot shows the SmartSwitch Web-Base Controller interface in Internet Explorer. The left sidebar contains a navigation menu with the following items: Administrator, Port Management, VLAN Setting, Per Port Counter, QoS Setting, Security, Spanning Tree (expanded), Trunking, Backup/Recovery, Miscellaneous, and Logout. Under Spanning Tree, the sub-items are STP Bridge Settings and STP Port Settings (highlighted in red). The main content area displays the STP Port Settings table and the STP Port Status table.

Port No.	Priority (0~240)	RPC (Root Path Cost) (1~20000000)
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Submit"/>		

Port No.	RPC	Priority	State	Status	Designated Bridge	Designated Port
1	Auto(200000)	0x80	--	Disable	--	--
2	Auto(200000)	0x80	--	Disable	--	--
3	Auto(200000)	0x80	--	Disable	--	--
4	Auto(200000)	0x80	--	Disable	--	--
5	Auto(200000)	0x80	--	Disable	--	--
6	Auto(200000)	0x80	--	Disable	--	--
7	1	0x80	--	Disable	--	--
8	15	0x80	--	Disable	--	--
9	10	0x00	--	Disable	--	--
10	2	0x00	--	Disable	--	--
11	Auto(200000)	0x00	Designated Port	Forwarding	--	--
12	Auto(200000)	0x00	--	Disable	--	--
13	Auto(200000)	0x00	--	Disable	--	--
14	Auto(200000)	0x00	--	Disable	--	--
15	Auto(200000)	0x00	--	Disable	--	--
16	Auto(200000)	0x00	--	Disable	--	--

1. Choose "Port No.": Port 1 ~ Port 16
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.



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

Trunking: Link Aggregation Settings

The screenshot shows the DIGITUS web interface for configuring Link Aggregation Settings. The left sidebar contains a navigation menu with options like Administrator, Port Management, VLAN Setting, Per Port Counter, QoS Setting, Security, Spanning Tree, Trunking, Backup/Recovery, Miscellaneous, and Logout. The main content area is titled "Trunking" and contains the following settings:

System Priority	0	(1~65535)
Link Aggregation Algorithm	MAC Source	
<input type="button" value="Submit"/>		

Notice: If any trunk group is set to LACP type, each port in the trunk group will not be enabled(can't Forward/Receive) until the port can finish LACP procedure with its link partner port.

Member	Link Group 1				Link Group 2			
	P1	P2	P3	P4	P5	P6	P7	P8
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	--	--	--	--	--	--	--	--
State	Disable				Disable			
Type	Static				Static			
Operation Key	(1~65535)				(1~65535)			
Time Out	Long Time Out				Long Time Out			
Activity	Passive				Passive			
<input type="button" value="Submit"/>								

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

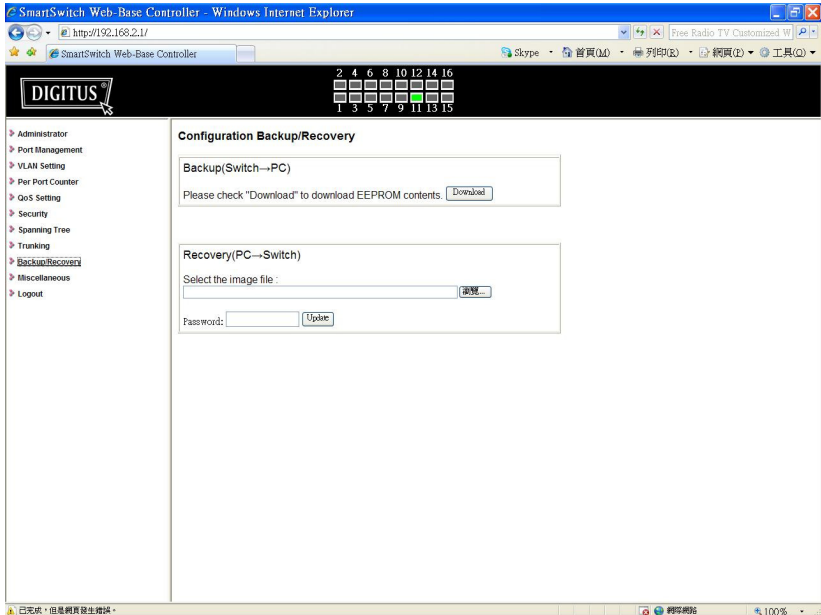
“Type” – LACP/ Static

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



16-PORT POWER OVER ETHERNET WEB SMART SWITCH

Configuration Backup/Recovery



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 → Click “Update” to confirm the setting.



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Miscellaneous: Miscellaneous Setting

The screenshot shows a web browser window titled "SmartSwitch Web-Base Controller - Windows Internet Explorer" with the address bar showing "http://192.168.2.1/". The page content includes a navigation menu on the left with options like Administrator, Port Management, VLAN Setting, Per Port Counter, QoS Setting, Security, Spanning Tree, Trunking, Backup/Recovery, Miscellaneous, and Logout. The main content area is titled "Miscellaneous Setting" and contains three sections:

- Output Queue Aging Time**: A dropdown menu for "Aging time" is set to "ms". A text box explains: "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."
- VLAN Striding**: A dropdown menu for "VLAN Striding" is set to "Disable". A text box explains: "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."
- IGMP Snooping V1 & V2**: A dropdown menu for "IGMP Snooping" is set to "Disable". A text box explains: "IGMP Snooping V1 & V2 function enable".

An "Update" button is located at the bottom right of the settings area.

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. “VLAN Uplink Setting” – Set “uplink1 or uplink2” or “Clear uplink1” or “Clear uplink2”
5. Click “Update” to confirm and finish the setting.



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Logout: You can click “Logout” to logout.

