



Zenty | Professional A/V Solution Provider

User Manual

V1.0



48 PORT GIGABIT ETHERNET SWITCH

ZT-106 | ZT-IPS48

ZENTY ®

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HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE



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1. Introduction

The ZENTY ZT-IPS48 provides 48 ports for you to customize as input or output ports (47 and 48 are for management by default), and ultimately custom tailor your own AV over IP matrix. Use the ZT-IPS48 as a standalone matrix or integrate the switch in to your existing network. Making routing changes and creating routing presets has never been easier with the new and improved web GUI interface.

2. Key Features

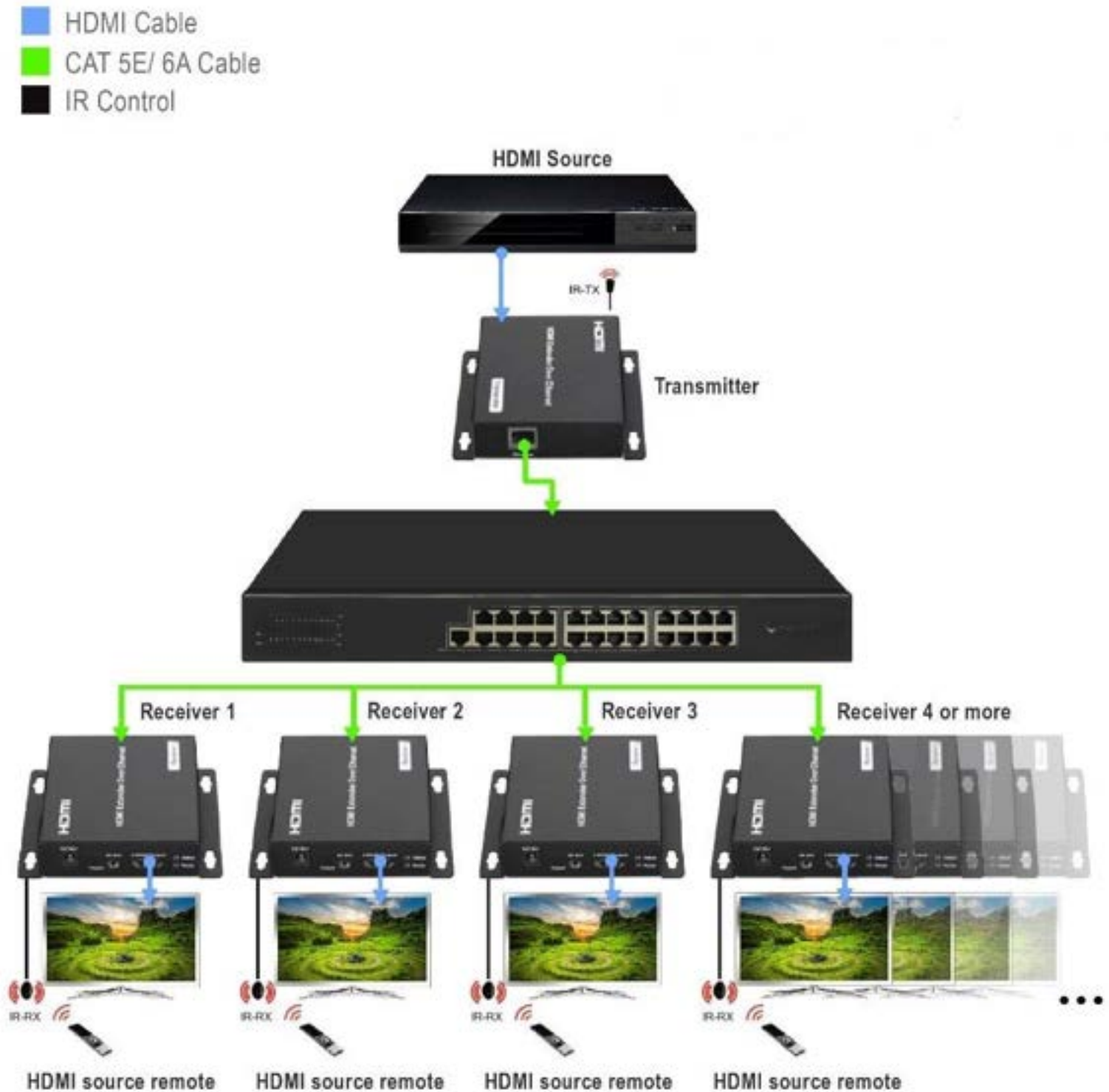
- ❖ 10Mbps/100Mbps/1000Mbps Network Switch specially optimized for HDMI extender matrix.
- ❖ Port 1 to Port 46 can be reconfigured as input or output ports.
- ❖ Port 47 and 48 are exclusively for management. Supports user management.
- ❖ User-friendly Web GUI available for Port-to-Port routing.
- ❖ Control via web GUI or J-Tech Digital Control App (available on Google Play and App Store)
- ❖ Control 4 Driver Available.

3. Package Contents

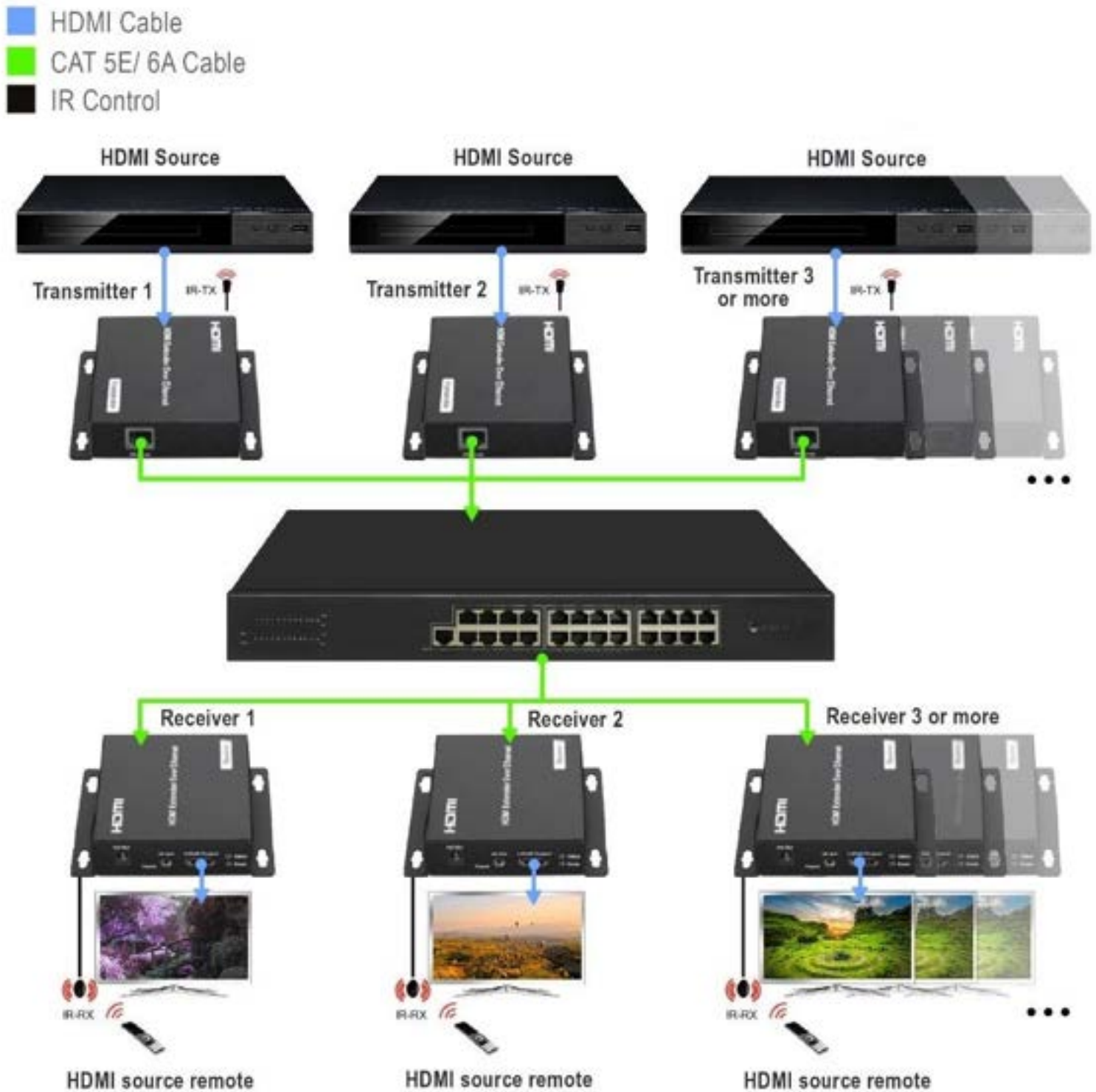
- ❖ 1 x Zenty ZT-IPS48 Gigabit Ethernet Switch
- ❖ 1 x User Manual
- ❖ 1 x Warranty Card
- ❖ 2 x Rackmount Ears
- ❖ 1 x Power Cable

4. Typical Applications

4.1 One to Many Configuration



4.2 Many to Many Configuration



5. Switch Login

Step 1: Connect your PC (or laptop) to port 48 (default management port) on the switch. Revise your PC's IP address to 192.168.168.11 (0-255). PC's IP address must be different than the switch's default IP address (192.168.168.254).

Step 2: Open a web browser and type in this address, 'Http://192.168.168.254' (192.168.168.254 is the default IP address)

Step 3: Default login credentials are, "Username: admin | Password: admin"

A screenshot of a web-based login interface for a switch. The interface has a red header bar at the top. Below the header, on a light gray background, are two input fields. The first field is labeled "Username:" and the second is labeled "Password:". Below these fields is a blue "Login" button.

Username:

Password:

Login

Step 4: After clicking the Login button, the routing will be shown as below:

PORT TOOLS > Port Routing

Current Mode Model

	Output	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48								
1 P1	☒																																																								
2 P2	☐	☒																																																							
3 P3	☐	☐	☒																																																						
4 P4	☐	☐	☐	☒																																																					
5 P5	☐	☐	☐	☐	☒																																																				
6 P6	☐	☐	☐	☐	☐	☒																																																			
7 P7	☐	☐	☐	☐	☐	☐	☒																																																		
8 P8	☐	☐	☐	☐	☐	☐	☐	☒																																																	
9 P9	☐	☐	☐	☐	☐	☐	☐	☐	☒																																																
10 P10	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																															
11 P11	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																														
12 P12	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																													
13 P13	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																												
14 P14	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																											
15 P15	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																										
16 P16	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																									
17 P17	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																								
18 P18	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																							
19 P19	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																						
20 P20	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																					
21 P21	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																				
22 P22	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																			
23 P23	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																																		

Model1 Model2 Model3 Model4

Save and Apply

6. Port Tools

6.1 Port Settings

Reference your desired Transmitter (TX) and Receiver (RX) connections, and designate your available ports as inputs or outputs in the Web GUI.

Here is an example that demonstrates how to change port 45 and port 46 from Outputs to Inputs. Follow Steps 1 – 2 below:

PORT TOOLS >> Port Setting

PORT TOOLS

Port Setting

Port Routing

SYSTEM

PORT CABLE TEST

☐	16	P16	Input
☐	17	P17	Input
☐	18	P18	Input
☐	19	P19	Input
☐	20	P20	Input
☐	21	P21	Input
☐	22	P22	Input
☐	23	P23	Input
☐	24	P24	Output
☐	25	P25	Output
☐	26	P26	Output
☐	27	P27	Output
☐	28	P28	Output
☐	29	P29	Output
☐	30	P30	Output
☐	31	P31	Output
☐	32	P32	Output
☐	33	P33	Output
☐	34	P34	Output
☐	35	P35	Output
☐	36	P36	Output
☐	37	P37	Output
☐	38	P38	Output
☐	39	P39	Output
☐	40	P40	Output
☐	41	P41	Output
☐	42	P42	Output
☐	43	P43	Output
☐	44	P44	Output
☒	45	P45	Output
☒	46	P46	Output
☐	47	P47	Management
☐	48	P48	Management

Edit

After clicking the “Edit” button, you will see the input/output setting, and will be able to add a description for the port.

PORT TOOLS >> Port Setting

PORT TOOLS
 Port Setting
 Port Routing
 SYSTEM
 PORT CABLE TEST

Edit Port Setting

Port P45-P46
 Description
 Mode ☒ Input ☐ Output
 Apply Close

Click Apply and Port 45 and 46 will change from output to input.

☐	31	P31	Output
☐	32	P32	Output
☐	33	P33	Output
☐	34	P34	Output
☐	35	P35	Output
☐	36	P36	Output
☐	37	P37	Output
☐	38	P38	Output
☐	39	P39	Output
☐	40	P40	Output
☐	41	P41	Output
☐	42	P42	Output
☐	43	P43	Output
☐	44	P44	Input
☐	45	P45	Input
☐	46	P46	Input
☐	47	P47	Management
☐	48	P48	Management

Edit

6.2 Port Routing

In Port Tools, you can set each Output port to display any Input port's content.

For example, if you want Output P14 and P15 to display the same Input source (Port 1), you can set it as below:

PORT TOOLS >> Port Routing

PORT TOOLS

- Port Setting
- Port Routing** 1
- SYSTEM
- PORT CABLE TEST

Current Mode: Mode1

	Output	P14	P15	P16	P17	P18	P19	P20	P21	P22
1	P1	☒	☒	☐	☐	☐	☐	☐	☐	☐
2	P2	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	P3	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	P4	☐	☐	☐	☐	☐	☐	☐	☐	☐
5	P5	☐	☐	☒	☐	☐	☐	☐	☐	☐
6	P6	☐	☐	☐	☒	☐	☐	☐	☐	☐
7	P7	☐	☐	☐	☐	☒	☐	☐	☐	☐
8	P8	☐	☐	☐	☐	☐	☒	☐	☐	☐
9	P9	☐	☐	☐	☐	☐	☐	☒	☐	☐
10	P10	☐	☐	☐	☐	☐	☐	☐	☒	☐
11	P11	☐	☐	☐	☐	☐	☐	☐	☐	☒
12	P12	☐	☐	☐	☐	☐	☐	☐	☐	☐
13	P13	☐	☐	☐	☐	☐	☐	☐	☐	☐

Mode1 Mode2 Mode3 Mode4

Save and Apply 3

After these steps, the matrix will send P1 source to Output ports P14 and P15.

You can use mode 1-4 to save and recall customized port routing configurations. Here is an example setting port routing data for mode 2.

	Output Input	P14	P15	P16	P17	P18	P19	P20	P21	P22
1	P1	☐	☐	☐	☒	☐	☐	☐	☐	☐
2	P2	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	P3	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	P4	☐	☐	☐	☐	☒	☐	☐	☐	☐
5	P5	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	P6	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	P7	☐	☐	☐	☐	☐	☐	☐	☐	☐
8	P8	☐	☐	☐	☐	☐	☐	☐	☐	☐
9	P9	☐	☐	☐	☐	☐	☐	☐	☐	☐
10	P10	☐	☐	☐	☐	☐	☐	☐	☐	☐
11	P11	☐	☐	☐	☐	☐	☐	☐	☐	☐
12	P12	☐	☐	☐	☐	☐	☐	☐	☐	☐
13	P13	☐	☐	☐	☐	☐	☐	☐	☐	☐

Mode1 **Mode2** Mode3 Mode4

Save and Apply

After you click 'Save and Apply', Mode2 routing configurations will be saved, and the routing data will be applied to the switch.

PORT TOOLS
Port Setting
Port Routing
SYSTEM
PORT CABLE TEST

PORT TOOLS >> Port Routing

Current Mode: Mode2

	Output Input	P14	P15	P16	P17	P18	P19	P20	P21	P22
1	P1	☐	☐	☐	☒	☐	☐	☐	☐	☐
2	P2	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	P3	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	P4	☐	☐	☐	☐	☒	☐	☐	☐	☐
5	P5	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	P6	☐	☐	☐	☐	☐	☐	☐	☐	☐

7. System

7.1 User Management

Add a user account via steps 1-7 shown below:

SYSTEM >> User Manage

User Account

Showing entries

☐	Username	Privilege
☐	admin	Admin

Add **Edit** **Delete**

1: SYSTEM menu item
2: User Manage menu item
3: Add button

SYSTEM >> User Manage

Add User Account

Username: 4

Password: 5

Confirm Password: 6

Privilege: ☒ Admin

Apply **Close**

7: Apply button

Edit a user account by following steps 8-12 shown below:

SYSTEM >> User Manage

User Account

Showing **All** entries

☐	Username	Privilege
☐	admin	Admin
☒	jtech	Admin

8 **9**

Add Edit Delete

SYSTEM >> User Manage

Edit User Account

Username: jtech

Password: **10**

Confirm Password: **11**

Privilege: Admin

12

Apply Close

You can also delete a user account by pressing the “Delete” button as shown below:

SYSTEM >> User Manage

User Account

Showing **All** entries Showing 1 to 2 of 2 entries

☐	Username	Privilege
☐	admin	Admin
☒	jtech	Admin

13 **14**

Add Edit Delete

7.2 System Config

Setting an IP address, subnet mask, and gateway for the matrix switch:

SYSTEM >> System Config

System Config

IPv4 Address

Address Type: ☒ Static

IP Address: 192.168.168.254

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

Operational Status

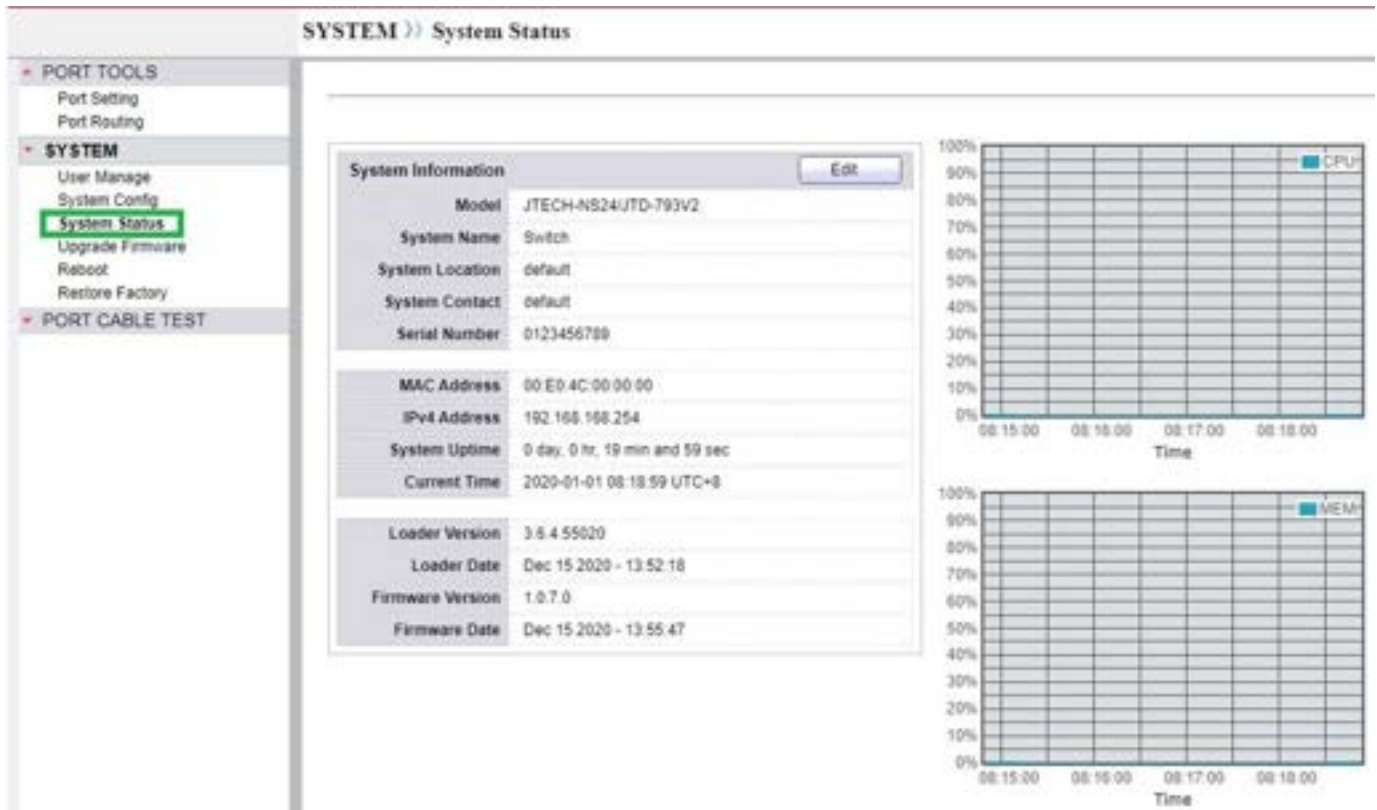
IPv4 Address: 192.168.168.254

IPv4 Default Gateway: 192.168.1.1

Apply

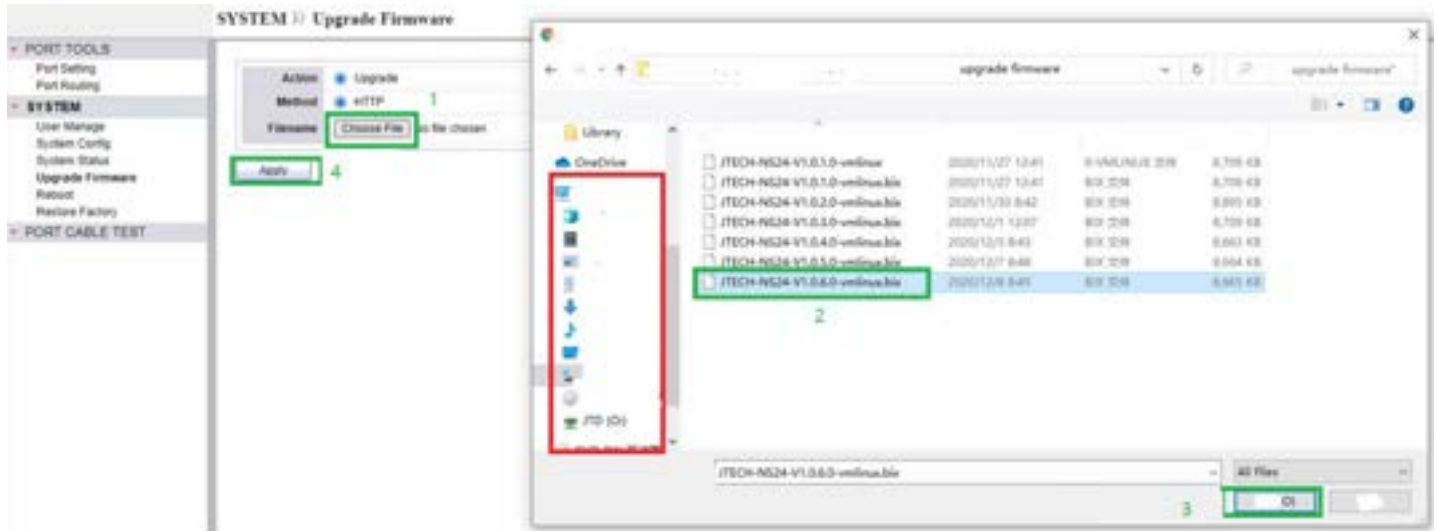
After clicking “Apply”, the device will apply the new IP information. You will need to use these new settings to login to the web GUI.

7.3 System Status



7.4 Firmware Upgrade

Follow Steps 1-4 to upgrade the firmware. It will take up to 10 minutes to complete. Don't power off during the upgrade process. After you finish the upgrade, you can reboot the unit.



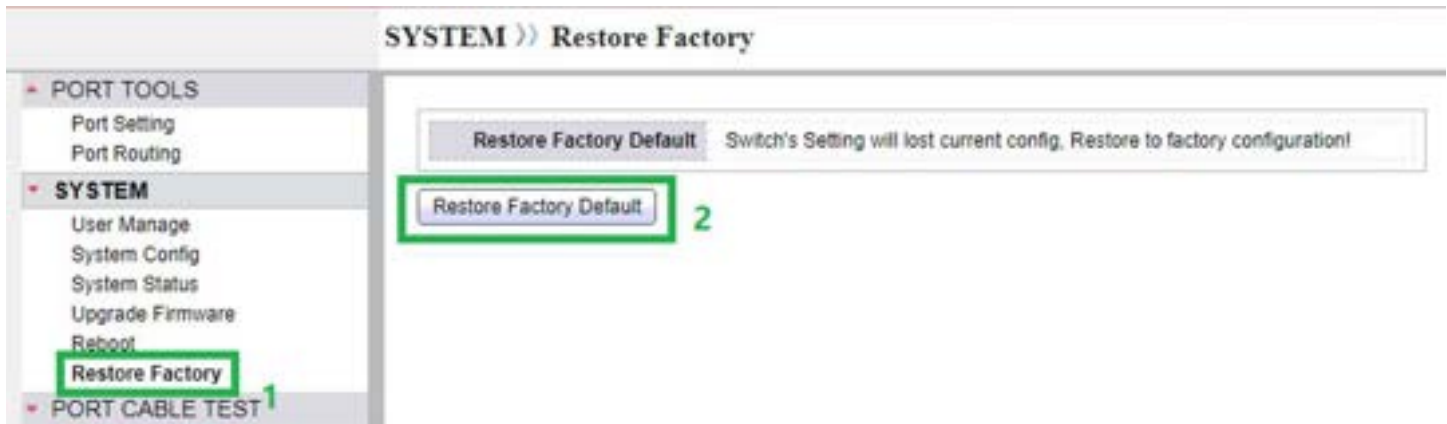
7.5 System Reboot



After steps 1 and 2, a dialogue box will display, “Reboot the system. Do you want to Continue?”. Click ‘Ok’. Please note that if “Ok” is not selected promptly, you may be asked to login to the web GUI again.

7.6 Restore Factory Default Settings

“Restore Factory Default” will set the switch to the default settings.



After step 2, a dialogue box will display, “Restore to factory defaults. You need to reboot the device to take effect. Do you want to continue?” Click “Ok” to continue. The dialogue box will display, “Reboot the device to take effect now. Do you want to continue?”. Click “Ok” to reboot the system.

Factory Default Settings:

IP Address: 192.168.168.254

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.1

Username: admin

Password admin

Management Ports: Port 47 and Port 48

8. Port Cable Test

The screenshot shows the 'PORT CABLE TEST >> Copper Test' interface. On the left sidebar, the 'PORT CABLE TEST' menu item is highlighted with a green box and labeled '1'. Below it, the 'Copper Test' sub-item is also highlighted with a green box and labeled '2'. In the main content area, the 'Port' dropdown menu is set to 'P1' and is highlighted with a green box and labeled '3'. Below the port selection, the 'Copper Test' button is highlighted with a green box and labeled '4'. Underneath the button, the text 'Copper Test Result' is highlighted with a green box and labeled '5'. At the bottom, a 'Cable Status' table is highlighted with a green box. The table contains the following information:

Cable Status	
Port	N/A
Result	N/A
Length	N/A

After steps 1-4, you will receive the cable test result. A status example is shown below:

The screenshot shows the 'PORT CABLE TEST >> Copper Test' interface with a successful test result. The 'Port' dropdown menu is set to 'P24'. The 'Copper Test' button is visible. Below the button, the text 'Copper Test Result' is displayed. At the bottom, a 'Cable Status' table is highlighted with a green box. The table contains the following information:

Cable Status	
Port	P24
Result	OK
Length	6.0 M

9. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzene to clean.

10. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor 5 years”, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

11. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

12. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis-adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER “LIMITED WARRANTY COVERAGE”. THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.



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