



# J-TECH DIGITAL JTECH-NS24 24-Port Switch Matrix User Manual

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**J-TECH DIGITAL JTECH-NS24 24-Port Switch Matrix**



## Dear Customer

Thank you for purchasing this product. For optimum performance and safety concerns, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

## Features

- 10Mbps/100Mbps/1000Mbps Network Switch Specially Optimized for J-Tech Digital's HDMI extender matrix.
- Port 1 to port 23 can be reconfigured as input or output & User-friendly Web GUI for Port-to-Port routing.
- Port 24 is exclusively for management. Supports user management.
- Firmware upgrades and free technical support from J-Tech Digital. Android control app is available on Google Play: search "J-Tech Digital Matrix" to find more details.

## Notice

J-Tech Digital, Inc reserves the right to make changes in the hardware, packaging, and any accompanying documentation without prior written notice.

## Package Contents

- User manual x 1
- Warranty Card x 1
- JTECH-NS24 x 1
- Rackmount Ears x 2
- Power Cable x 1

## Front Side and Back side

### Front Side

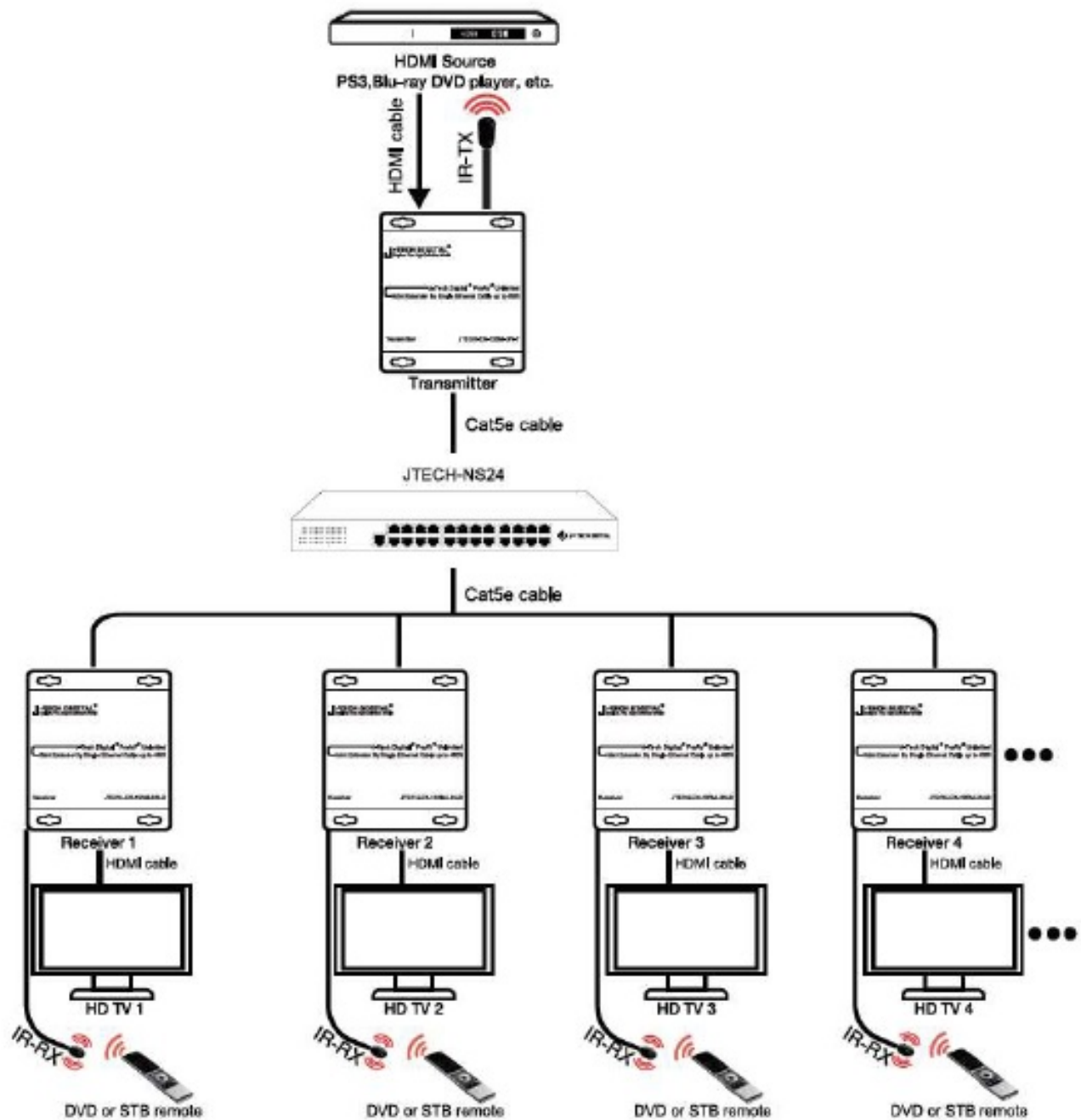


### Back Side

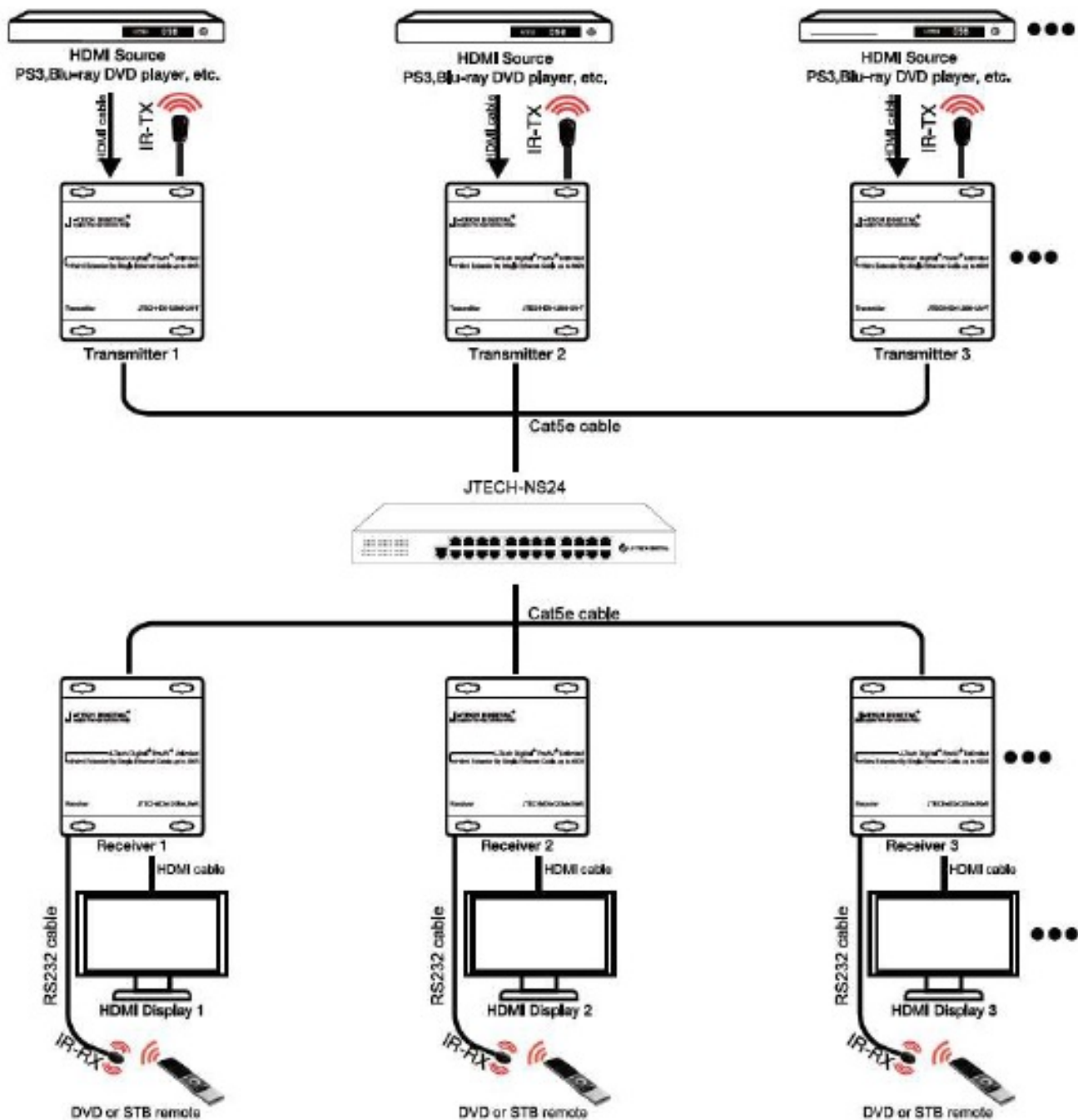


## Typical Applications

## One to many configurations




## Many to many configuration



Login to the switch

**Step 1: Connect your PC (or laptop) to this switch on port 24(default management port), revise your PC's IP address; PC's IP: 192.168.168.11(0-255), PC's IP address must be different than Switch's IP address (192.168.168.254 default IP).**


**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), input Username: admin, Password: admin**





Username:

Password:

After clicking the Login button, the current port routing will be shown as below:



PORT TOOLS >> Port Routing

Current Mode: Mode1

		Output	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22
		Input											
1	P1	<input checked="" type="checkbox"/>											
2	P2		<input checked="" type="checkbox"/>										
3	P3			<input checked="" type="checkbox"/>									
4	P4				<input checked="" type="checkbox"/>								
5	P5					<input checked="" type="checkbox"/>							
6	P6						<input checked="" type="checkbox"/>						
7	P7							<input checked="" type="checkbox"/>					
8	P8								<input checked="" type="checkbox"/>				
9	P9									<input checked="" type="checkbox"/>			
10	P10										<input checked="" type="checkbox"/>		
11	P11											<input checked="" type="checkbox"/>	

Mode1   Mode2   Mode3   Mode4

## PORT TOOLS

### Port Setting

Referencing your needed Transmitter (TX) and Receiver (RX) connections, designate your available ports as an Input port or Output port.

Here is an example to show how to change port 12 and port 13 from output to input.

Following the step1-3 as the below:

PORT TOOLS

Port Setting 1

Port Routing

SYSTEM

PORT CABLE TEST

<input type="checkbox"/>	Entry	Port	Description	Mode
<input type="checkbox"/>	1	P1		Input
<input type="checkbox"/>	2	P2		Input
<input type="checkbox"/>	3	P3		Input
<input type="checkbox"/>	4	P4		Input
<input type="checkbox"/>	5	P5		Input
<input type="checkbox"/>	6	P6		Input
<input type="checkbox"/>	7	P7		Input
<input type="checkbox"/>	8	P8		Input
<input type="checkbox"/>	9	P9		Input
<input type="checkbox"/>	10	P10		Input
<input type="checkbox"/>	11	P11		Input
<input checked="" type="checkbox"/>	12	P12		Output
<input checked="" type="checkbox"/>	13	P13		Output
<input type="checkbox"/>	14	P14		Output
<input type="checkbox"/>	15	P15		Output
<input type="checkbox"/>	16	P16		Output
<input type="checkbox"/>	17	P17		Output
<input type="checkbox"/>	18	P18		Output
<input type="checkbox"/>	19	P19		Output
<input type="checkbox"/>	20	P20		Output
<input type="checkbox"/>	21	P21		Output
<input type="checkbox"/>	22	P22		Output
<input type="checkbox"/>	23	P23		Management
<input type="checkbox"/>	24	P24		Management

Edit

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

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1 3 5 7 9 11 13 15 17 19 21 23

2 4 6 8 10 12 14 16 18 20 22 24

PORT TOOLS >> Port Setting

PORT TOOLS

Port Setting

Port Routing

SYSTEM

PORT CABLE TEST

Edit Port Setting

Port P12-P13

Description

Mode

☒ Input
 ☐ Output

Apply

Close

Click Apply, and port12 and port13 will change from output to input.

J-TECH DIGITAL

1 3 5 7 9 11 13 15 17 19 21 23

2 4 6 8 10 12 14 16 18 20 22 24

PORT TOOLS >> Port Setting

PORT TOOLS

Port Setting

Port Routing

SYSTEM

PORT CABLE TEST

<input type="checkbox"/>	Entry	Port	Description	Mode
<input type="checkbox"/>	1	P1		Input
<input type="checkbox"/>	2	P2		Input
<input type="checkbox"/>	3	P3		Input
<input type="checkbox"/>	4	P4		Input
<input type="checkbox"/>	5	P5		Input
<input type="checkbox"/>	6	P6		Input
<input type="checkbox"/>	7	P7		Input
<input type="checkbox"/>	8	P8		Input
<input type="checkbox"/>	9	P9		Input
<input type="checkbox"/>	10	P10		Input
<input type="checkbox"/>	11	P11		Input
<input checked="" type="checkbox"/>	12	P12		Input
<input checked="" type="checkbox"/>	13	P13		Input
<input type="checkbox"/>	14	P14		Output
<input type="checkbox"/>	15	P15		Output

## Port Routing

In PORT TOOLS, you can set each "Output" port to display any "Input" port's content.

For example, if you want the 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
	Input									
1	P1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	P2	<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	P3	<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	P4	<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	P5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	P6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	P7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	P8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	P9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	P10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	P11	<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 checked="" type="checkbox"/>
12	P12	<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	P13	<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"/>

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 mode2.

	Output	P14	P15	P16	P17	P18	P19	P20	P21	P22
	Input									
1	P1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	P2	<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	P3	<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	P4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	P5	<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	P6	<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	P7	<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	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"/>	<input type="checkbox"/>
9	P9	<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	P10	<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	P11	<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	P12	<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	P13	<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"/>

Mode1

Mode2 1

Mode3

Mode4

Save and Apply 3

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

## PORT TOOLS >> Port Routing

### PORT TOOLS

Port Setting  
Port Routing

### SYSTEM

PORT CABLE TEST

**Current Mode: Mode2**

	Output Input	P14	P15	P16	P17	P18	P19	P20	P21	P22
1	P1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	P2	<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	P3	<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	P4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	P5	<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	P6	<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	P7	<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"/>

System

User management



User management

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SYSTEM >> User Manage

PORT TOOLS  
Port Setting  
Port Routing  
**SYSTEM** 1  
User Manage 2  
System Config  
System Status  
Upgrade Firmware  
Reboot  
Restore Factory  
PORT CABLE TEST

**User Account**

Showing All entries

<input type="checkbox"/>	Username	Privilege
<input type="checkbox"/>	admin	Admin

Add Edit Delete 3

**J-TECH DIGITAL**

SYSTEM >> User Manage

PORT TOOLS  
Port Setting  
Port Routing  
**SYSTEM**  
User Manage  
System Config  
System Status  
Upgrade Firmware  
Reboot  
Restore Factory  
PORT CABLE TEST

**Add User Account**

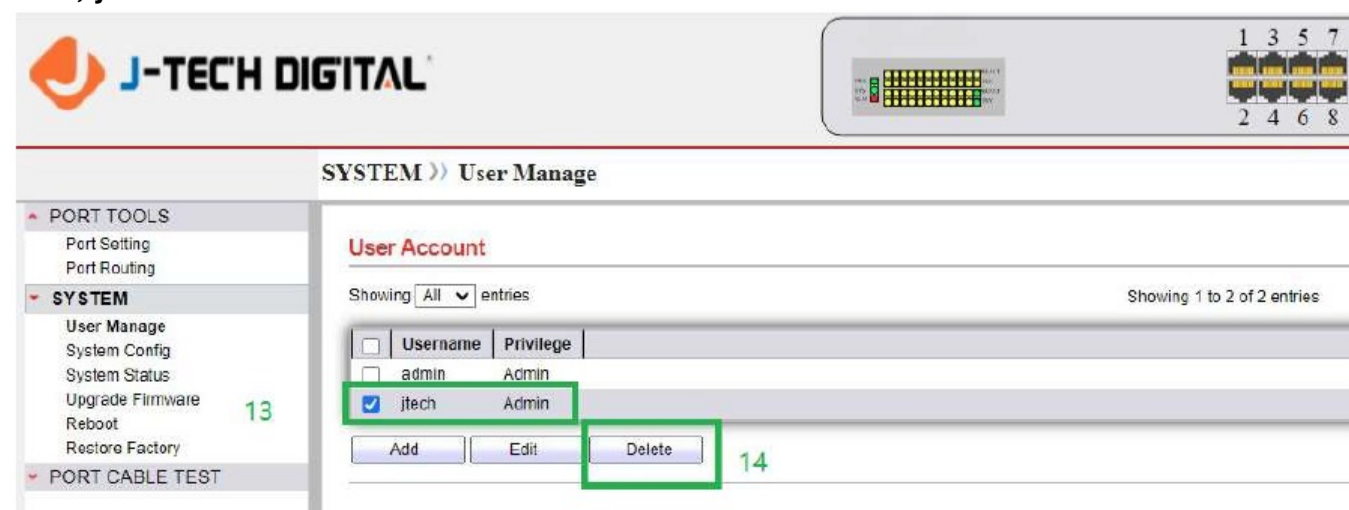
Username	jtech 4
Password	***** 5
Confirm Password	***** 6
Privilege	<input checked="" type="radio"/> Admin

Apply Close 7

Add a user account via steps 1-7 and edit a user account following step 8-12 shown below:






Also, you can delete a user account as below:



## System Config

Setting IP address, subnet mask, gateway for matrix.



---

SYSTEM >> System Config

PORT TOOLS

Port Setting

Port Routing

SYSTEM

User Manage

System Config

System Status

Upgrade Firmware

Reboot

Restore Factory

PORT CABLE TEST

### System Config

IPv4 Address

Address Type

☒ Static

IP Address

Subnet Mask

Default Gateway

Operational Status

IPv4 Address


192.168.168.254



IPv4 Default Gateway

192.168.1.1

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.

## System Status



---

SYSTEM >> System Status

PORT TOOLS

Port Setting

Port Routing

SYSTEM

User Manage

System Config

System Status

Upgrade Firmware

Reboot

Restore Factory

PORT CABLE TEST

System Information

Model

JTECH-NS24/JTD-793V2

System Name

Switch

System Location

default

System Contact

default

Serial Number

0123456789

MAC Address

00:E0:4C:00:00:00

IPv4 Address

192.168.168.254

System Uptime

0 day, 0 hr, 19 min and 59 sec

Current Time

2020-01-01 08:18:59 UTC+8

Loader Version

3.6.4.55020

Loader Date

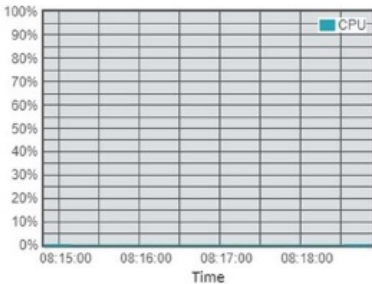
Dec 15 2020 - 13:52:18

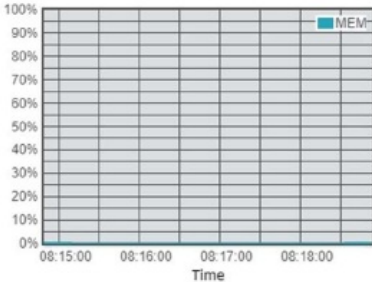
Firmware Version

1.0.7.0

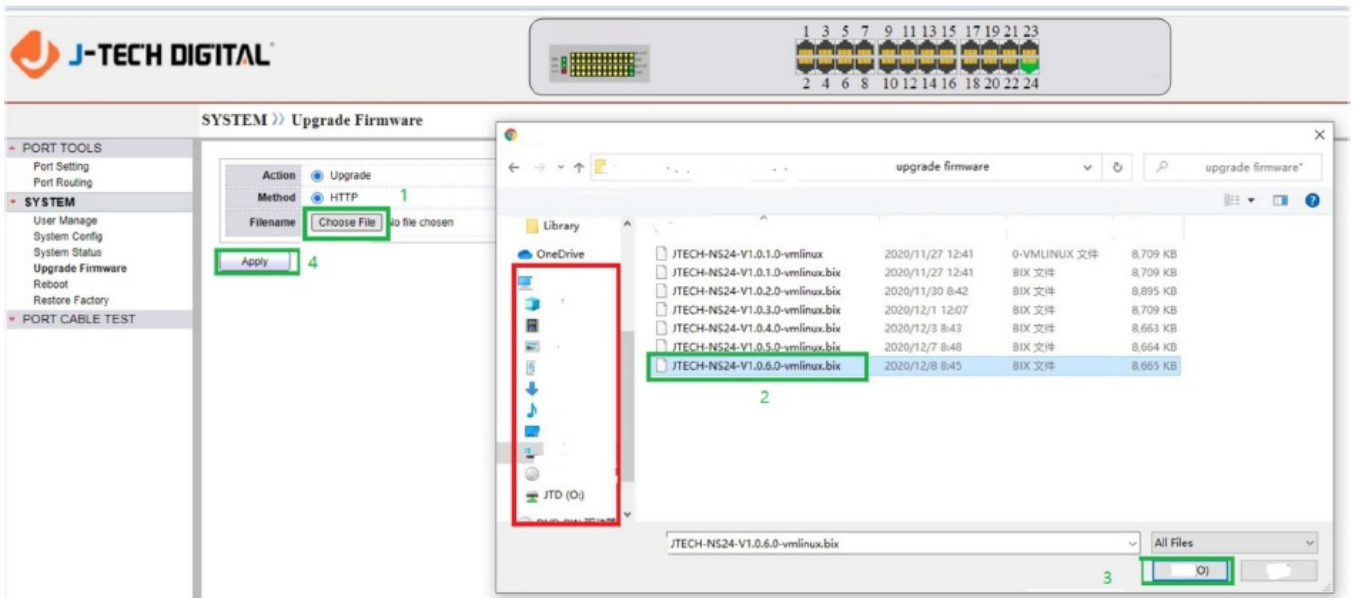
Firmware Date

Dec 15 2020 - 13:55:47

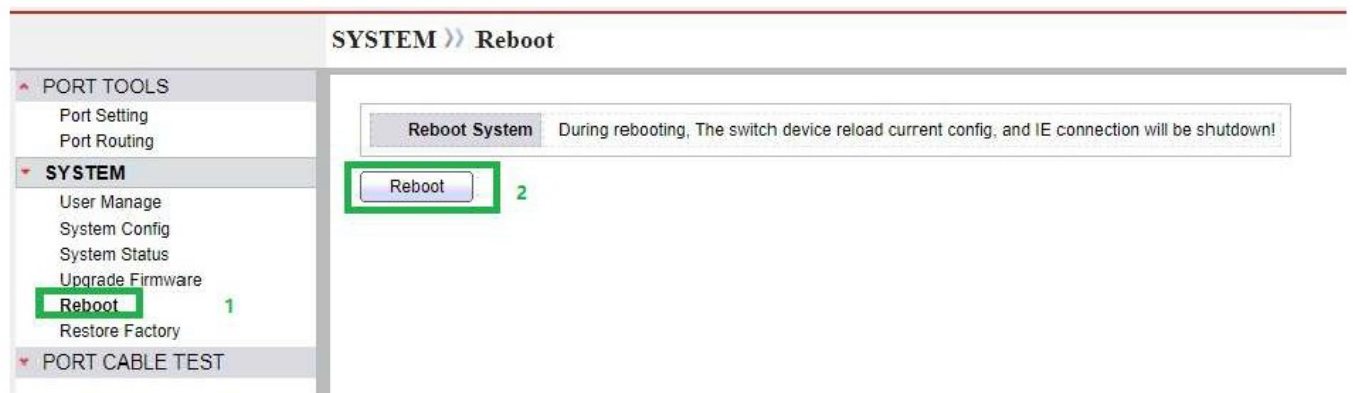




**Upgrade Firmware** Follow steps 1-4 to upgrade the firmware. It will take up to 10 minutes. Don't power off during the upgrade process. After you finish the upgrade, you can reboot the unit.



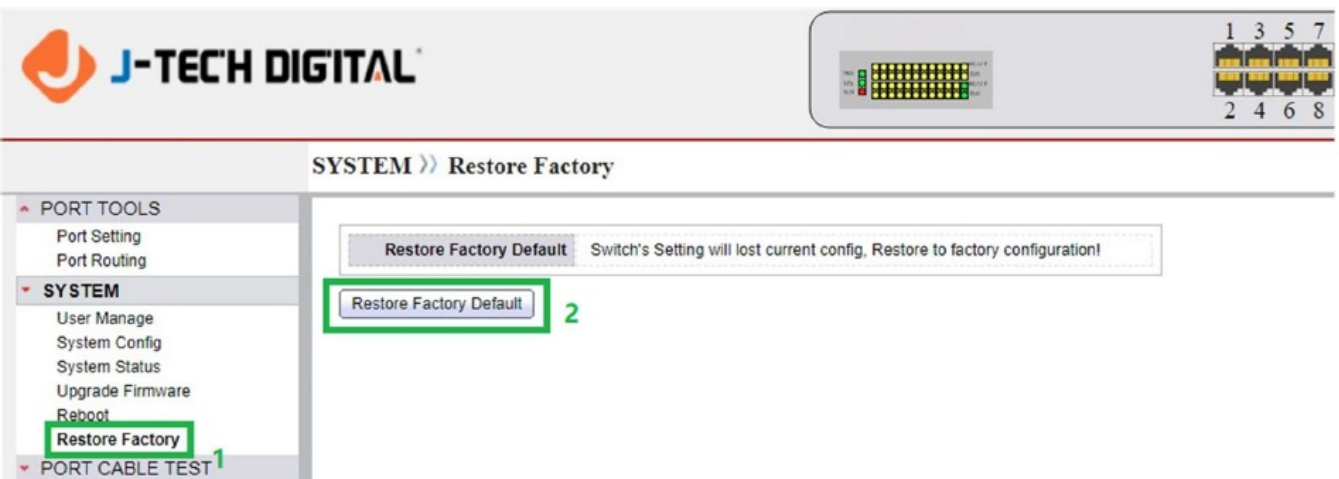
## Reboot



After steps 1 & 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.

## 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
- Account admin
- Password admin
- Management port port 23 port24
- Input port: port1-11
- Output port:port12-24
- Current Mode: Mode 1
- Port routing: P1-P12,P2-P13,P3-P14,P4-P15,P5-P16,P6-P17,P7-P18,P8-P19,P9-P20,P10-P21,P11-P22.

## Port Cable Test

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PORT CABLE TEST >> Copper Test

PORT TOOLS  
 Port Setting  
 Port Routing

SYSTEM

PORT CABLE TEST  
 Copper Test

Port: P1

Copper Test

Copper Test Result

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

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

PORT CABLE TEST >> Copper Test

PORT TOOLS  
 Port Setting  
 Port Routing

SYSTEM

PORT CABLE TEST  
 Copper Test

Port: P24

Copper Test


Copper Test Result

Cable Status	
Port	P24
Result	OK
Length	6.0 M

## WARRANTY

With the registration of supported J-Tech Digital products, you extend the current warranty by 6 months. This extension is added to the warranty that starts at the purchase date of the device supported. Total product warranty with the extended period will equate to a total of 18 months of warranty from the date of purchase. For extended warranties to be accepted, all warranty extensions must be claimed within 30 days of purchasing the eligible J-Tech Digital product. Extensions attempted to be claimed outside of the 30-day window will not be accepted.

## Documents / Resources

	<p><a href="#">J-TECH DIGITAL JTECH-NS24 24-Port Switch Matrix</a> [pdf] User Manual JTD-793v2, JTECH-NS24, JTECH-NS24 24-Port Switch Matrix, 24-Port Switch Matrix</p>
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## References

- **B** [J-Tech Digital ® Official Site | Professional AV Solution Provider](#)