

USER MANUAL



24 Port AVoIP Network Switch JTD-3136 | JTECH-NS24V3

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Scan the QR code below or visit https://resource.jtechdigital.com/products/3136 to view and access detailed digital resources regarding this unit.



## **Safety Instructions:**

- Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:
- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do no place the product near heat sources like radiators, heat registers, stove, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

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#### 1. Introduction

The J-Tech JTECH-NS24V3 is a Layer 3 network management switch equipped with 24 Gigabit Ethernet Ports and 4 x 10 Gigabit SFP+ Ethernet Ports. It facilitates Layer 3 static routing along with a maximum switching capacity of 128Gbps. Specifically tailored for AV over IP distribution, it incorporates an intuitive web-based management system for seamless input/output routing control.

### 2. Product Highlights

#### Flexible Port Configuration:

- · 24 Gigabit Ethernet ports with 4 SFP+ ports.
- Ports 1 23 can be configured as either Inputs or Outputs.
- Port 24 is dedicated to management functions.

#### **User-Friendly Web Management System:**

- Assign port statuses as input or output and manage port routing.
- Handle user management, including adding or removing user accounts and setting priority levels.
- Create custom presets tailored to user preferences.
- Monitor switch status and apply available firmware updates.
- Reboot the switch or perform a factory reset.

#### **Additional Features:**

- Supports CLI and Layer 3 Management.
- · Low power consumption.
- Standard 19" 1U rack mount design.

## 3. Package Contents

- (1) x JTECH-NS24V3
- (1) x Power Cable
- (2) x Mounting Ears

## 4. Hardware Specifications

Item	Details
Ethernet Ports	24 x Gigabit Ethernet Ports along with 4 x SFP+ Ports
Console Port	1 x RS45 - RS232 Serial Port (115200, 8, N, 1)
Init Key	Press and hold for >5s to reset switch to factory settings
Power	1 x AC 100~240V 50/60Hz
Power Consumption	30W
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3Z, IEEE802.3X
	IEEE802.1Q, IEEE802.1p, IEEE802.3ad, IEEE802.1D, IEEE802.1X
Exchange Capacity	128Gbps / non-blocking
Package Conversion Rate	95.2Mbps@64bytes
Exchange Mode	Store-and-forward
Package Data Cache	12Mbit
MAC Address List	16k
Rectangular Layout	12k bytes
EMI	FCC Part 15, CISPR (EN55022) Class A
EMS	Surge level-4 execute: IEC61000-4-5
	ESD level-4 execute: IEC61000-4-2
	RS level4-execute: IEC61000-4-3
	EFT level4-execute: IEC61000-4-4
	CS level3-execute: IEC61000-4-6
	M/S level-5 execute: IEC61000-4-8
Operating Temperature	-40°C ~ 75°C
Storage Temperature	-40°C ~ 85°C
Size (LxWxH)	440mm x 227mm x 45mm
Weight	4.5kg
Identification	CE, FCC, RoHS

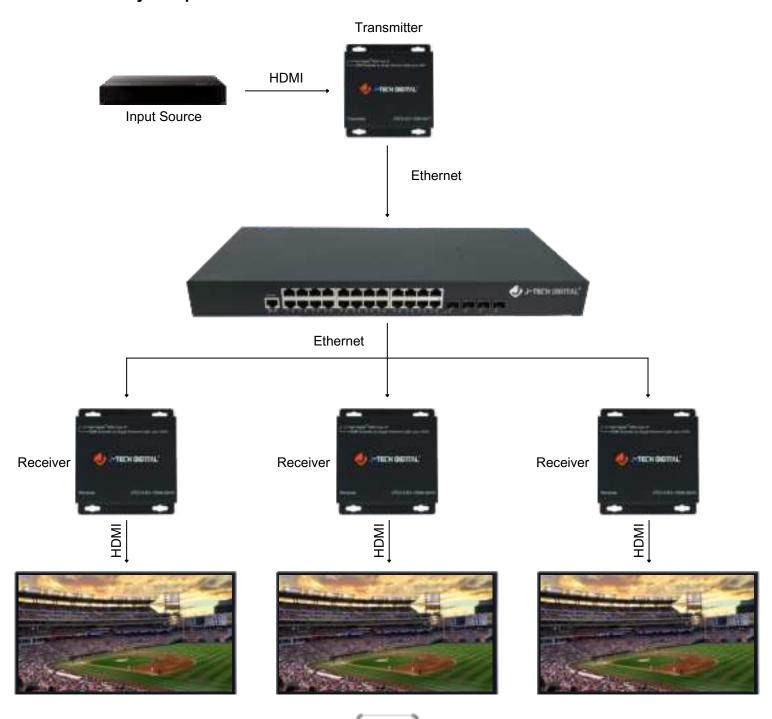
## 5. Software Specifications

- 802.1p COS/DSCP/TOS priority
- IGMP Snooping, MLD-snooping, DHCP snooping
- Multicast VLAN Registration (MVR)
- IP, MAC, port VLAN binding combinations
- IPV4 static route setup

- Static ARP Add, delete, burn-in time setup/check
- Group-broadcasting PIM, IGMPV1/V2/V3, MLD (IPV4)
- DHCP client
- · Relay repeater, DHCP snooping
- · Suplex transfer check mechanism

## 6. Application

### One - Many Setup



## Many - Many Setup



## 7. Web Management

The JTECH-NS24V3 offers a user friendly web management system which can be accessed and configured through an Ethernet port.

Default IP Address: 192.168.168.254

Default Username: admin
Default Password: admin

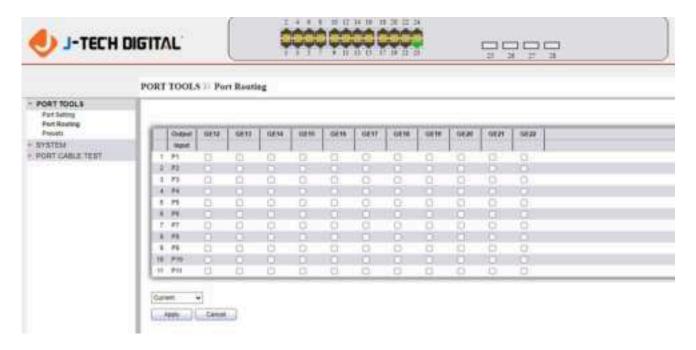
#### 7.1 Port Tools > Port Setting

Ability to change the Mode of the ports. For instance, changing an Input Port into an Output Port or vice versa.



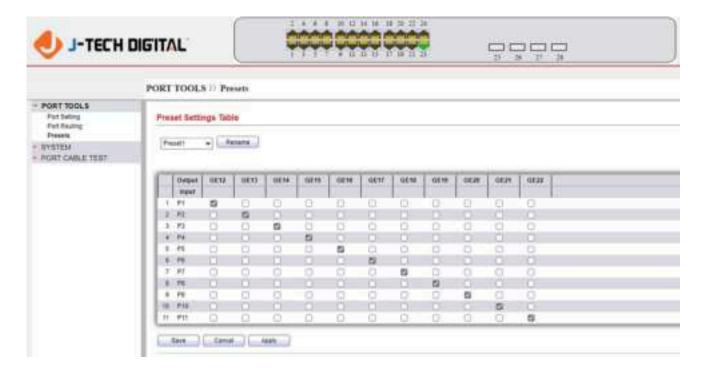
#### 7.2 Port Tools > Port Routing

Ability to create VLANs with the check of a box. For instance, you can make on Input Port route to Multiple Output ports. Will allow device to function like a Matrix.



#### 7.3 Port Tools > Presets

Ability to create and name presets. Allows users to customize presets to their liking depending on the needs.



#### 7.4 System > User Manage

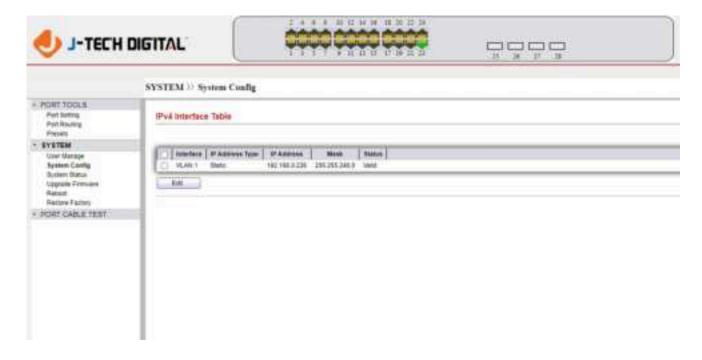
Ability to add, edit or delete users.

(Default Username: admin Default Password: admin)



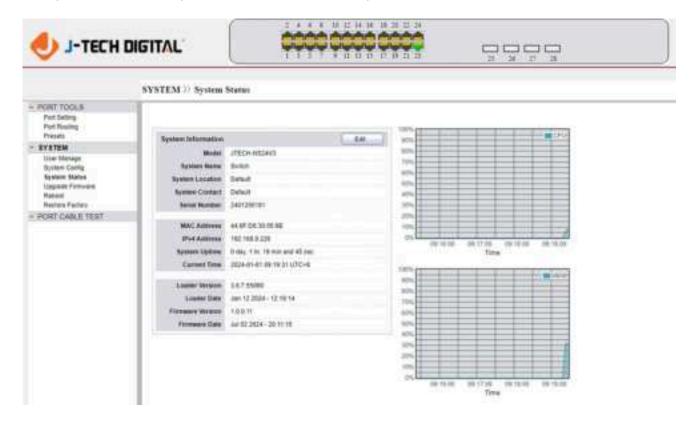
#### 7.5 System > System Config

Ability to assign the switch a different IP address and subnet mask.



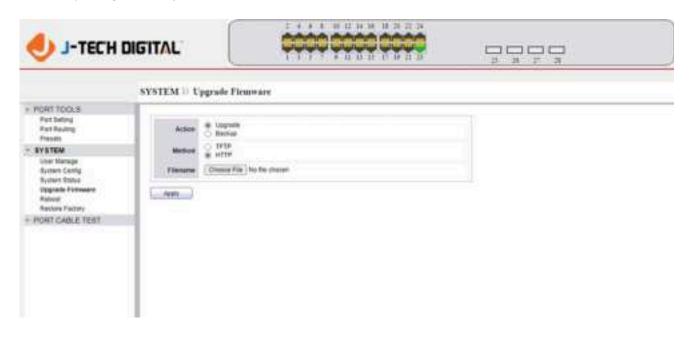
#### 7.6 System > System Status

Ability to view and edit system information, such as system name, location, contact etc.



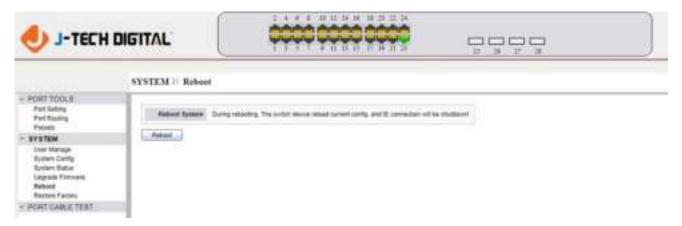
#### 7.7 System > Upgrade Firmware

Upgrade or Backup Firmware via TFTP (Trivial File Transfer Protocol) or HTTP (Hypertext Transfer Protocol) using .bix filetypes.



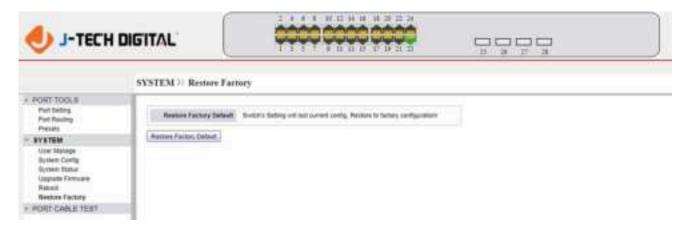
#### 7.8 System > Reboot

Used to restart the device.



#### 7.9 System > Restore Factory

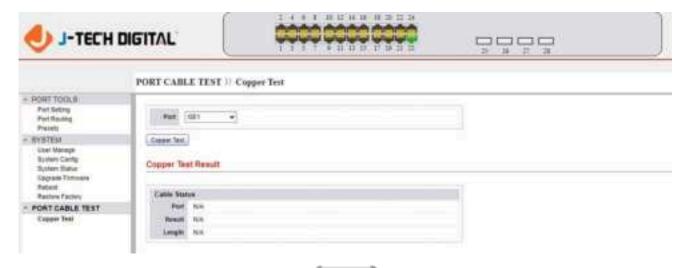
Used to restore switch to default factory setting. All user settings will be lost.



#### 7.10 Port Cable Test > Copper Test

Check the RJ45 cable connected by Port, labeled GE1- GE24 and view its Copper Test Results.

The results will show under Cable Status: Port, Result and Length (Meters)



#### 8. Maintenance

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

## 9. Warranty

If your product does not work properly because of a defect in materials of workmanship, our company (referred to as "the warrantor") will, for the length of the period indicated as below, "Parts and Labor (1) Year", 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.

### 10. 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.

### 11. 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, misadjustment 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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