



Zenty | Professional A/V Solution Provider

User Manual ^[V1.0]



24 Port AV over IP Network Switch

ZT-383 | ZT-IPS24V3



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1. Overview

The Zenty ZT-IPS24V3 is an industrial Layer 3 network management switch with 24 Gigabit Ethernet Ports and 4 x 10 Gigabit SFP+ Ethernet Ports. It supports Layer 3 static routing and a maximum switching capacity of 128Gbps. This switch is designed for AV over IP distribution and features a user friendly web management system for input/output routing.

2. Product Highlights:

- Flexible Port Configuration: 24 Gigabit Ethernet ports with 4 x SFP+ ports.
 - Ports 1 - 23 can be assigned as Inputs or Outputs
 - Port 24 is reserved for management use
- Features a user-friendly Web Management system that can be used to:
 - Assign port status as input or output and control port routing
 - User management, allowing adding or removing user accounts while setting priority level
 - Create custom presets based on user preference
 - Check switch status and apply available firmware updates
 - Reboot or perform a factory reset on the switch
- Supports CLI and L3 Management
- Low Power Consumption
- Standard 19" 1U rack mount design

3. Package Contents

- (1) x ZT-IPS24V3 Switch
- (1) x Power Cable
- (2) x Mounting Ears

4. Software Specifications

- 802.1p COS/DSCP/TOS priority
- IGMP Snooping, MLD-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

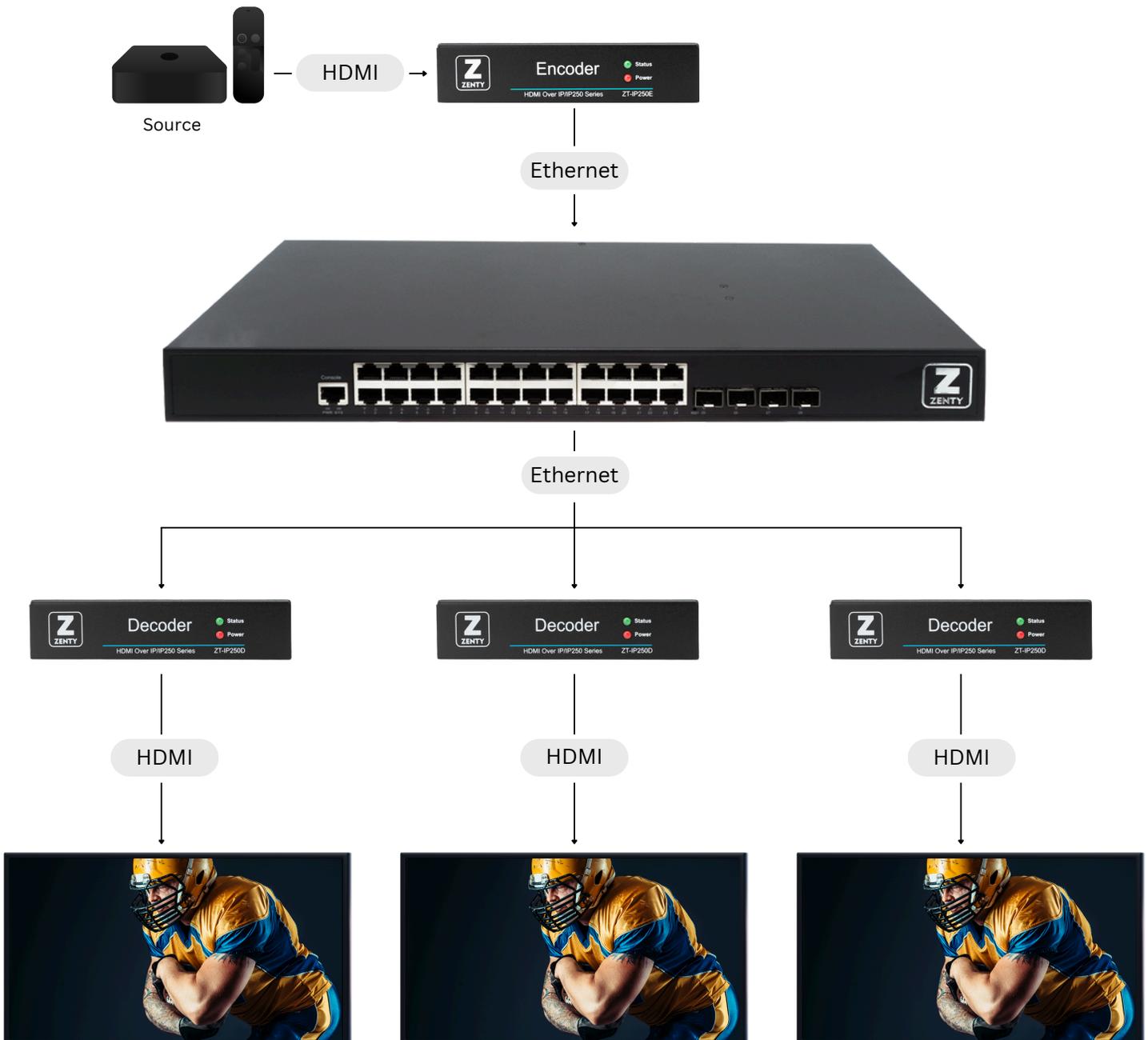
5. Hardware Specifications

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

6. Application

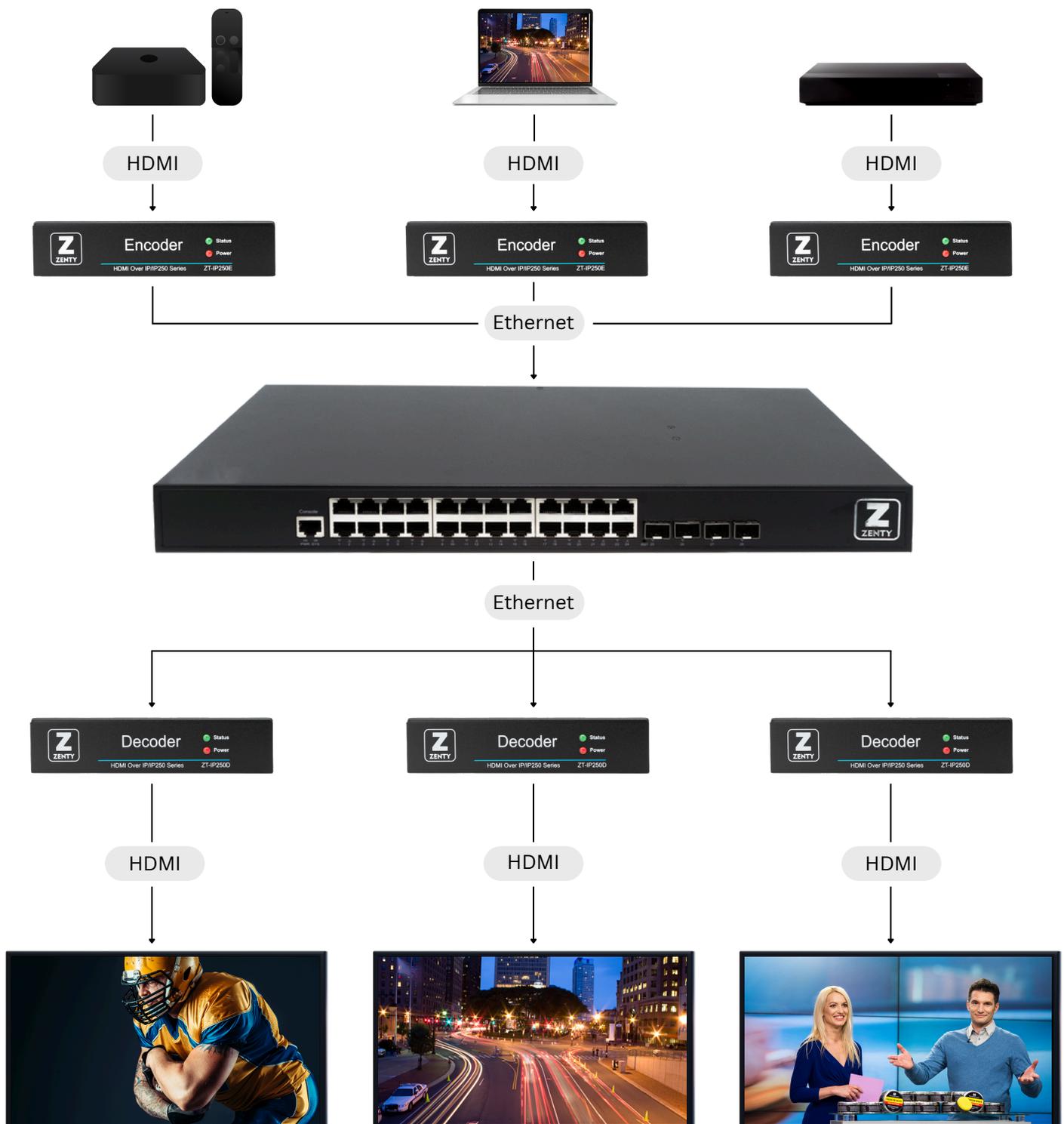
6.1 One - Many Configuration

- Please make sure that the Encoder is plugged in to the Ethernet port of the switch that is assigned as an Input. Decoders would plug in to the Ethernet ports assigned as Outputs.
- Use the switch's web interface to manage Input / Output port assigning and routing.



6.2 Many - Many Configuration

- Please make sure that the Encoders are plugged in to the Ethernet ports of the switch that are assigned as Inputs. Decoders would plug in to the Ethernet ports assigned as Outputs.
- Use the switch's web interface to manage Input / Output port assigning and routing.



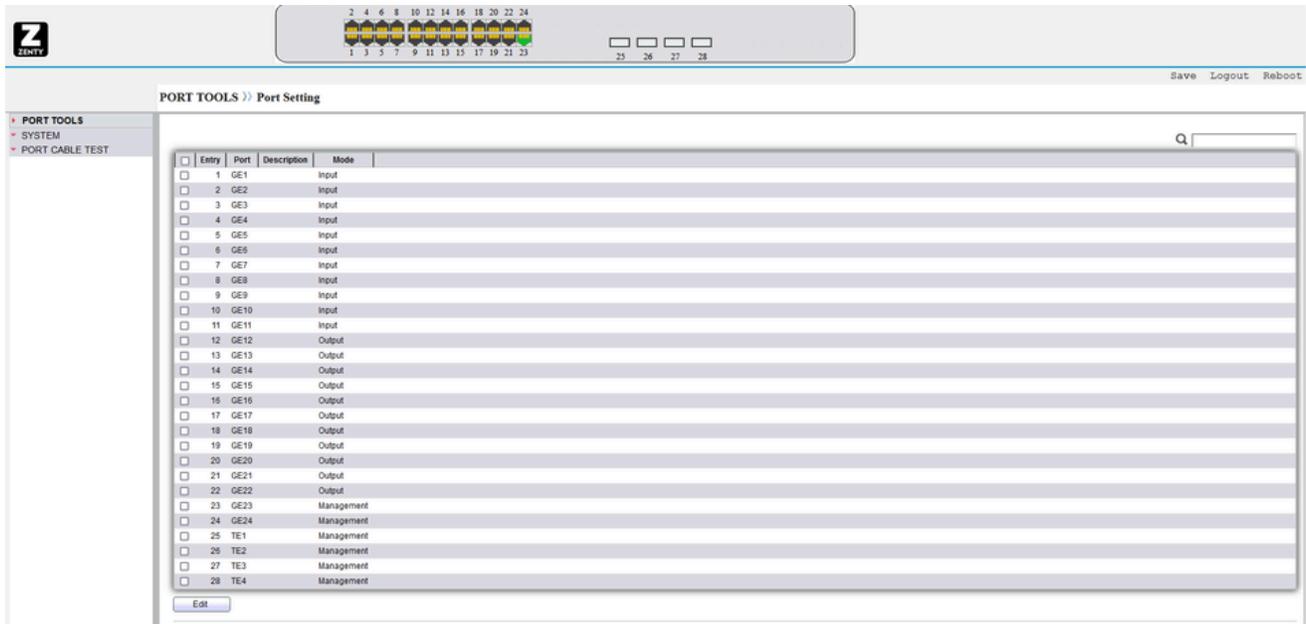
7. Web Management

The ZT-IPS24V3 offers a user friendly web management system, and the features can be accessed and configured through an Ethernet port.

Default IP Address: **192.168.168.254**

Default Username: **admin**

Default Password: **admin**



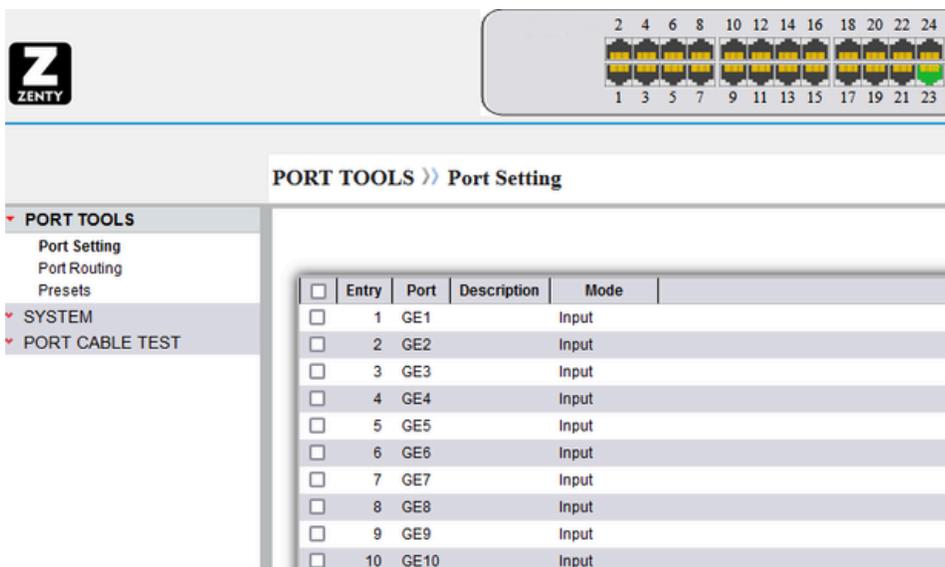
The screenshot shows the Zenty web management interface. At the top, there is a Zenty logo and a port status indicator showing 24 ports (1-24) with their respective modes (Input/Output/Management). Below this, the main content area is titled "PORT TOOLS >> Port Setting". On the left, there is a navigation menu with "PORT TOOLS" expanded, showing "Port Setting", "Port Routing", and "Presets". The main table lists 28 ports with columns for Entry, Port, Description, and Mode. The ports are grouped into Input, Output, and Management categories.

Entry	Port	Description	Mode
<input type="checkbox"/>	1	GE1	Input
<input type="checkbox"/>	2	GE2	Input
<input type="checkbox"/>	3	GE3	Input
<input type="checkbox"/>	4	GE4	Input
<input type="checkbox"/>	5	GE5	Input
<input type="checkbox"/>	6	GE6	Input
<input type="checkbox"/>	7	GE7	Input
<input type="checkbox"/>	8	GE8	Input
<input type="checkbox"/>	9	GE9	Input
<input type="checkbox"/>	10	GE10	Input
<input type="checkbox"/>	11	GE11	Input
<input type="checkbox"/>	12	GE12	Output
<input type="checkbox"/>	13	GE13	Output
<input type="checkbox"/>	14	GE14	Output
<input type="checkbox"/>	15	GE15	Output
<input type="checkbox"/>	16	GE16	Output
<input type="checkbox"/>	17	GE17	Output
<input type="checkbox"/>	18	GE18	Output
<input type="checkbox"/>	19	GE19	Output
<input type="checkbox"/>	20	GE20	Output
<input type="checkbox"/>	21	GE21	Output
<input type="checkbox"/>	22	GE22	Output
<input type="checkbox"/>	23	GE23	Management
<input type="checkbox"/>	24	GE24	Management
<input type="checkbox"/>	25	TE1	Management
<input type="checkbox"/>	26	TE2	Management
<input type="checkbox"/>	27	TE3	Management
<input type="checkbox"/>	28	TE4	Management

Web Interface Overview

7.1 Port Tools > Port Setting

Check the status of your ports and assign them as inputs or outputs.



The screenshot shows the Zenty web management interface. At the top, there is a Zenty logo and a port status indicator showing 24 ports (1-24) with their respective modes (Input/Output/Management). Below this, the main content area is titled "PORT TOOLS >> Port Setting". On the left, there is a navigation menu with "PORT TOOLS" expanded, showing "Port Setting", "Port Routing", and "Presets". The main table lists 10 ports with columns for Entry, Port, Description, and Mode. The ports are grouped into Input, Output, and Management categories.

Entry	Port	Description	Mode
<input type="checkbox"/>	1	GE1	Input
<input type="checkbox"/>	2	GE2	Input
<input type="checkbox"/>	3	GE3	Input
<input type="checkbox"/>	4	GE4	Input
<input type="checkbox"/>	5	GE5	Input
<input type="checkbox"/>	6	GE6	Input
<input type="checkbox"/>	7	GE7	Input
<input type="checkbox"/>	8	GE8	Input
<input type="checkbox"/>	9	GE9	Input
<input type="checkbox"/>	10	GE10	Input

7.2 Port Tools > Port Routing

Route your inputs to outputs using the port routing table.

PORT TOOLS >> Port Routing

PORT TOOLS

- Port Setting
- Port Routing
- Presets

SYSTEM

PORT CABLE TEST

	Output	GE12	GE13	GE14	GE15	GE16	GE17	GE18	GE19	GE20	GE21	GE22
	Input											
1	P1	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	P2	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	P3	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐
4	P4	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐
5	P5	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐
6	P6	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐
7	P7	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐
8	P8	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐
9	P9	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
10	P10	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
11	P11	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑

Current ▼

Apply Cancel

7.3 Port Tools > Presets

Allows users to set presets for their custom settings. Click on “Rename” to assign a custom name.

PORT TOOLS >> Presets

PORT TOOLS

- Port Setting
- Port Routing
- Presets

SYSTEM

PORT CABLE TEST

Preset Settings Table

Preset2 Rename

	Output	GE12	GE13	GE14	GE15	GE16	GE17	GE18	GE19	GE20	GE21	GE22
	Input											
1	P1	☑	☐	☑	☑	☐	☐	☐	☐	☐	☐	☐
2	P2	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑
3	P3	☐	☐	☐	☐	☐	☑	☐	☐	☐	☑	☐
4	P4	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5	P5	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐
6	P6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	P7	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐
8	P8	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9	P9	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
10	P10	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
11	P11	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Save Cancel Apply

PORT TOOLS >> Presets

PORT TOOLS

- Port Setting
- Port Routing
- Presets

SYSTEM

PORT CABLE TEST

Preset Settings Rename Table

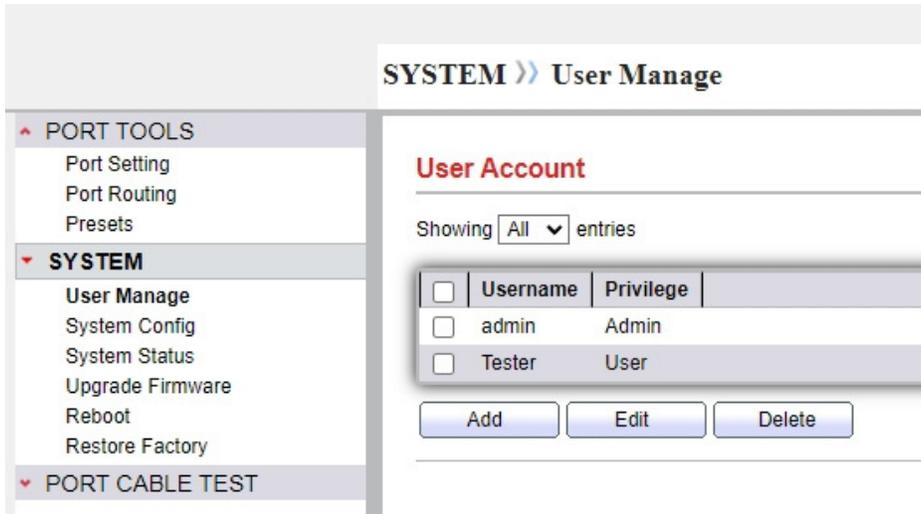
Preset Name Preset2

Preset Rename

Apply Close

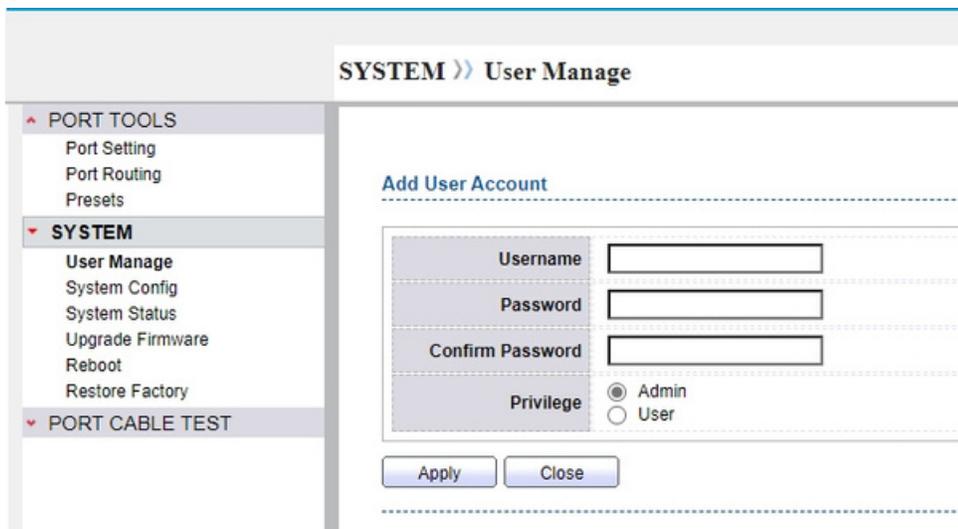
7.4 System > User Manage

Allows users to manage the user accounts. Add, Edit, or Delete accounts as needed, and assign privileges to the accounts.



The screenshot shows the 'SYSTEM >> User Manage' interface. On the left is a navigation menu with categories: PORT TOOLS (Port Setting, Port Routing, Presets), SYSTEM (User Manage, System Config, System Status, Upgrade Firmware, Reboot, Restore Factory), and PORT CABLE TEST. The main content area is titled 'User Account' and shows 'Showing All entries'. Below this is a table with columns for 'Username' and 'Privilege'. The table contains two rows: 'admin' with 'Admin' privilege and 'Tester' with 'User' privilege. Each row has a checkbox to its left. At the bottom of the table are three buttons: 'Add', 'Edit', and 'Delete'.

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



The screenshot shows the 'Add User Account' form. It has a title 'Add User Account' and a dashed border. The form contains four fields: 'Username' (text input), 'Password' (text input), 'Confirm Password' (text input), and 'Privilege' (radio buttons for 'Admin' and 'User', with 'Admin' selected). At the bottom are two buttons: 'Apply' and 'Close'.

7.5 System > System Config

Assign custom IP address and subnet mask to the switch.

SYSTEM >> System Config

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

IPv4 Interface Table

<input type="checkbox"/>	Interface	IP Address Type	IP Address	Mask	Status
<input checked="" type="checkbox"/>	VLAN 1	Static	192.168.168.120	255.255.255.0	Valid

[Edit](#)

7.6 System > System Status

Check the switches' status and system information at a glance.

SYSTEM >> System Status

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

System Information [Edit](#)

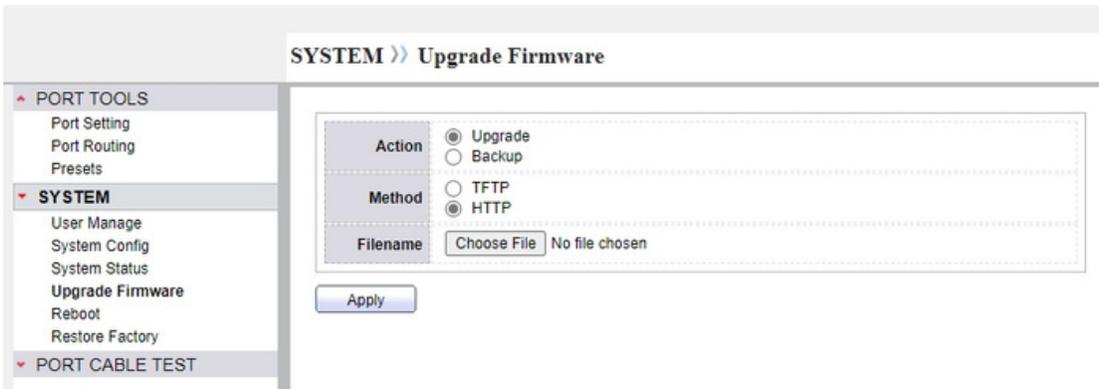
Model	ZT-IPS24V3
System Name	Switch
System Location	Default
System Contact	Default
Serial Number	2401200137
MAC Address	44:6F:D8:30:05:3F
IPv4 Address	192.168.168.120
System Uptime	4 day, 23 hr, 2 min and 57 sec
Current Time	2024-01-06 07:01:57 UTC+8
Loader Version	3.6.7.55090
Loader Date	Jan 12 2024 - 12:39:41
Firmware Version	1.0.0.11
Firmware Date	Jun 25 2024 - 21:39:46

CPU usage graph showing 0% usage over time.

MEM usage graph showing 0% usage over time.

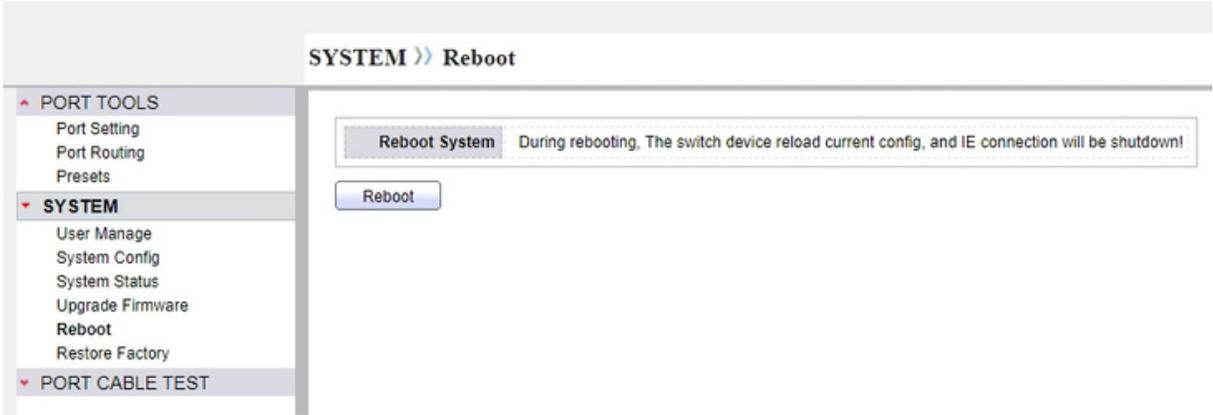
7.7 System > Update Firmware

Used to apply firmware updates to the switch.



7.8 System > Reboot

Restart the switch. Please note that this option only restarts the device, and does not factory reset the settings.



7.9 System > Restore Factory

Use this option to restore the switch back to factory default settings. All user and custom settings will be lost.



7.10 Port Cable Test > Copper Test

Allows users to test whether a port can link up or not through the ethernet connector. Also helps to determine ethernet cable performance.

PORT CABLE TEST >> Copper Test

PORT TOOLS

- Port Setting
- Port Routing
- Presets

SYSTEM

- User Manage
- System Config
- System Status
- Upgrade Firmware
- Reboot
- Restore Factory

PORT CABLE TEST

- Copper Test

Port: GE1

Copper Test

Copper Test Result

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

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 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.

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 daytime phone and/or email address where you can be reached 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, 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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