



Zenty | Professional A/V Solution Provider

User Manual [v1.0]



Z-NET IP Controller

ZT-162 | ZT-IP100C

ZENTY®

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1. Introduction

The Zenty ZT-IP100C is an IP control box that is used as an A/V control device for controlling, configuring and managing encoders and decoders on the local area network. It integrates two Ethernet ports and two RS232 ports, offering integration-friendly control features—LAN (Web GUI & Telnet). It also can be used with a third-party controller to provide a simple, flexible control and management options. IP controller can automatically search and display encoders and decoders. It is designed to be compatible with the configuration file from PC configurator (HDMI over IP Console) and use the imported configuration file to perform operations on encoders and decoders such as matrix and video wall.

2. Features

- IP control via LAN (Web GUI & Telnet) and a third-party controller
- Features two Ethernet ports and two RS232 ports
- Discover encoders and decoders automatically
- Supports matrix switching between encoders and decoders
- Compatible with the configuration file from PC configurator to quickly perform operations on encoders and decoders, such as matrix and video wall
- Web configuration page

3. Package Contents

- 1 x IP Controller
- 1 x Power Supply (12 V 1A DC)
- 1 x Detachable Plug
- 1 x Phoenix Connector (Male, 3.5 mm, 6 pins)
- 2 x Mounting Ear
- 5 x Label Card (49 mm x 15 mm)

4. Specifications

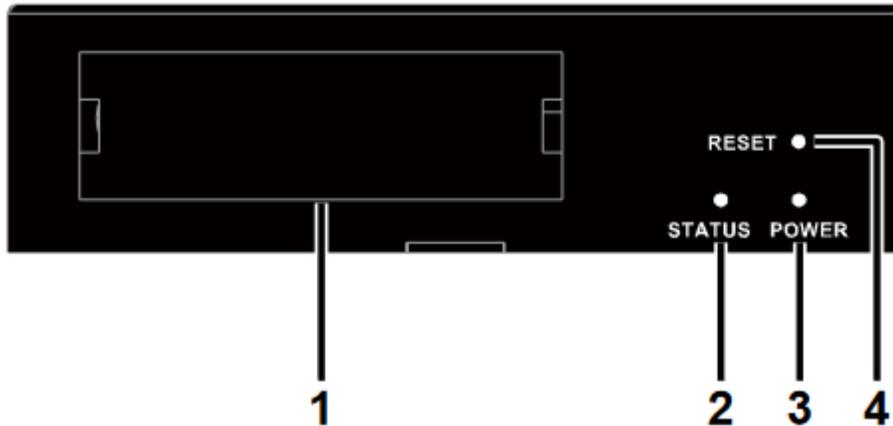
Technical	
I/O Connections	1 x LAN (AV/PoE) (10/100Mbps) 1 x LAN (C) (10/100Mbps) 2 x RS232
LED	1 x Status LED 1 x Power LED
Button(s)	1 x Reset Button
Control Method	LAN (WebGUI & Telnet), RS232, and a third-party controller

General	
Power Supply	12V/DC 1A
Power Consumption	4.5W Max (without outputting 12V 0.5 A using RS232 port) 10.5W Max (with outputting 12V 0.5A using RS232 port)
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) 10% ~ 90%, non-condensing
Storage Temperature	-4°F ~ 140°F (-20°C ~ 70°C) 10% ~ 90%, non-condensing
Surge Protection	Voltage: +- 1000V (Tested ten times respectively for the positive and negative voltages)
ESD Protection	Human body model: +8kV (air-gap discharge) +4kV (contact discharge)
Product Dimension (W x H x D)	93.2mm x 26mm x 138.7mm 3.67" x 1.02" x 5.46"
Case Dimension (W x H x D)	170mm x 80mm x 250mm 6.69" x 3.15" x 9.84"

Weight	0.38kg / 0.84lbs (without accessories)
Certifications	CE, FCC, RoHS Compliant

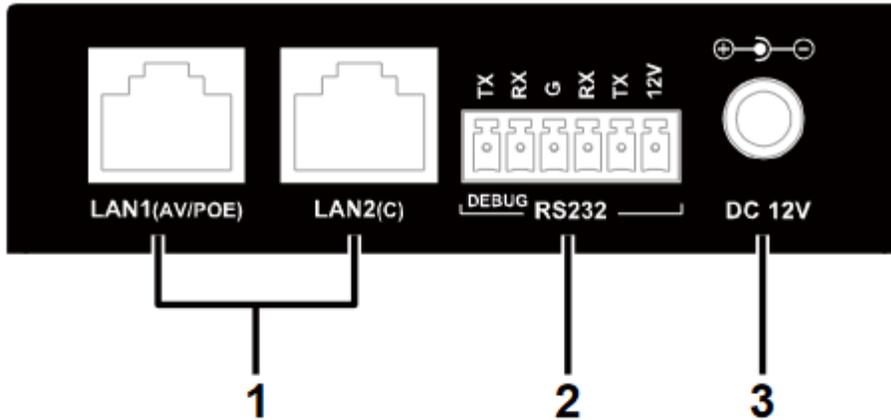
5. Panel Description

5.1 Front Panel



No.	Name	Description
1	Label Card Location	Inserts a supplied label card intended for writing short notes such as an IP address.
2	STATUS LED	<ul style="list-style-type: none"> ● Blue: when IP controller is working properly. ● Off: when IP controller is powered off or is booting.
3	POWER LED	<ul style="list-style-type: none"> ● Red: when IP controller is powered on. ● Off: when IP controller is powered off.
4	RESET	<p>When IP controller is powered on, use a pointed stylus to hold down RESET button for five or more seconds, and then release it. It will reboot and restore to its default settings.</p> <p>Note: When the default settings are restored, your custom data is lost. Therefore, exercise caution when using the RESET button.</p>

5.2 Rear Panel



No.	Name	Description
1	RJ45 ports	1 x LAN1 (AV/POE): Connects to a switch for communication with encoders and decoders on the same network.
		Default protocol:
		IP Address 169.254.1.1
		Subnet Mask 255.255.0.0
		Gateway 169.254.1.254
		DHCP Off
		Link speed and duplex level Autodetected
		Ethernet port indicators  :
		Green Link LED: this green colored LED lights when IP controller actively communicates with a network.
		Amber Activity LED: this amber colored LED flickers as IP controller is connected to a

No.	Name	Description										
		network.										
		<p>1 x LAN2 (C):</p> <p>Connects to a third party controller for controlling, configuring and managing ZT-IP100C, encoders and decoders through LAN control (Web GUI & Telnet).</p>										
		<p>Default protocol:</p> <table border="1"> <tr> <td>IP Address</td> <td>192.168.11.243</td> </tr> <tr> <td>Subnet Mask</td> <td>255.255.0.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.11.1</td> </tr> <tr> <td>DHCP</td> <td>Off</td> </tr> <tr> <td>Link speed and duplex level</td> <td>Autodetected</td> </tr> </table>	IP Address	192.168.11.243	Subnet Mask	255.255.0.0	Gateway	192.168.11.1	DHCP	Off	Link speed and duplex level	Autodetected
IP Address	192.168.11.243											
Subnet Mask	255.255.0.0											
Gateway	192.168.11.1											
DHCP	Off											
Link speed and duplex level	Autodetected											
		<p>Ethernet port indicators  : same as above.</p>										
		<p>Note:</p> <ul style="list-style-type: none"> ● Only LAN1 (AV/POE) port supports PoE. You can connect it to a PoE switch to receive power, eliminating the need for a nearby power outlet. ● We would recommend that you power IP controller using either a power adapter or a PoE switch instead of using both them at the same time. For example, if you want to use a power adapter, ensure that PoE function of the connected LAN port in the 										

No.	Name	Description																
		switch is disabled or a non-PoE switch is used.																
2	RS232 ports	<p>Left (DEBUG): Pins TX, RX, G are used for device troubleshooting only.</p> <p>RS232 parameters:</p> <table border="1"> <tr> <td>Baud Rate</td> <td>115 200 bps</td> </tr> <tr> <td>Data Bits</td> <td>8 bits</td> </tr> <tr> <td>Parity</td> <td>None</td> </tr> <tr> <td>Stop Bits</td> <td>1</td> </tr> </table> <p>Middle (Control): Pins G, RX, TX are used for controlling, configuring and managing IP controller, encoders and decoders through RS232 software or a third party controller.</p> <p>RS232 parameters:</p> <table border="1"> <tr> <td>Baud Rate</td> <td>9 600 bps</td> </tr> <tr> <td>Data Bits</td> <td>8 bits</td> </tr> <tr> <td>Parity</td> <td>None</td> </tr> <tr> <td>Stop Bits</td> <td>1</td> </tr> </table> <p>Right (Power): Pins G, 12V are used for providing a 12 VDC 0.5 A output.</p> <p>Note: Please connect the correct pins for device debug and control. When IP controller is powered by a power adapter, if you connect control terminal to control port after first connection with the debug port, you need to reboot IP controller for device control process.</p>	Baud Rate	115 200 bps	Data Bits	8 bits	Parity	None	Stop Bits	1	Baud Rate	9 600 bps	Data Bits	8 bits	Parity	None	Stop Bits	1
Baud Rate	115 200 bps																	
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Stop Bits	1																	
3	DC 12V	Connects to a supplied 12 VDC 1 A power adapter.																

6. Maintenance

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

7. 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.

8. 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.

9. 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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