Z ZENTY

Zenty | Professional A/V Solution Provider

User Manual [V1.0]

1080P 60Hz HDMI over Ethernet Extender

ZT-100 | ZT-IP250E [Encoder]

ZT-101 | ZT-P250D [Decoder]

ZENTY ®

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HDMI HIGH DEFINITION MULTIMEDIA INTERFACE — RoHS compliant — CE FC

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1. Introduction

The Zenty IP250 AV over IP series is designed to extend 1080P HDMI signals up to 400ft. via single Cat5e/6 cable. Customers can use the IP250 series in one of three ways:

Point – Point: Connect an IP250 encoder directly to an IP250 decoder via single ethernet cable, and extend a 1080P HDMI signal up to 400ft.

One – Many: Connect an IP250 encoder to our Zenty AV over IP switch, and connect multiple decoders to that same switch in order to send an HDMI signal from one source to multiple displays with ease.

Many – Many: Connect multiple IP250 encoders to our Zenty AV over IP switch, along with multiple decoders to the same switch. Use the switch's custom web interface in order to route different encoders to different decoders, thus creating an AV over IP matrix system.

2. Features:

- Extend 1080P 60Hz signals up to 400ft. over a single UTP Cat5e/6 cable

- TCP/IP protocol allows usage with Zenty AV over IP switch in order to create an AV over IP Matrix system

- Broadcast architecture allows for adding more displays without adding LAN bandwidth

- Supports point – point, one – many, and many – many configurations

- Wideband IR (38-56kHz) to control the source

- Can be cascaded for many layers by adding Zenty ethernet switches

3. Specifications

Operating Temperature Range	-5°C ~ 35°C |
Operating Humidity Range	5 – 90% RH (No Condensation)
Input Video Signal	0.5 – 1.0 Volts P-P

Input DDC Signal	5 Volts p-p (TTL)
Video Resolutions	Up to 1080P 60Hz
Video Output	HDMI
Transmission Distance	1080P 8-bit 400ft. over single Cat5e/6
Power Consumption	Encoder: 3W Decoder: 3W
IR Frequency	38 – 56kHz
Dimensions (L x W x H)	103.5mm x 93.5mm x 24.6mm 4.07" x 3.68" x 0.97
Net Weight	Encoder / Decoder: 220g | 0.49lbs.
Encoder Default IP Address	IP: 192.168.168.55 MAC: 00:0b:78:00:60:01
Decoder Default IP Address	IP: 192.168.168.56 MAC: 00:0b:89:00:60:02

4. Panel Description

Encoder

Status: Connection status indicator

Power: Power light indicator

DC/5V: Power adapter port

Ethernet: RJ45 output port to connect to decoder or Zenty switch

IR TX: IR transmitter cable port

HDMI Input: Connect a source via HDMI cable

Reset: Press and hold the reset button to factory reset encoder settings

Decoder

Status: Connection status indicator

Power: Power light indicator

DC/5V: Power adapter port

Ethernet: RJ45 input port to connect to encoder or Zenty switch
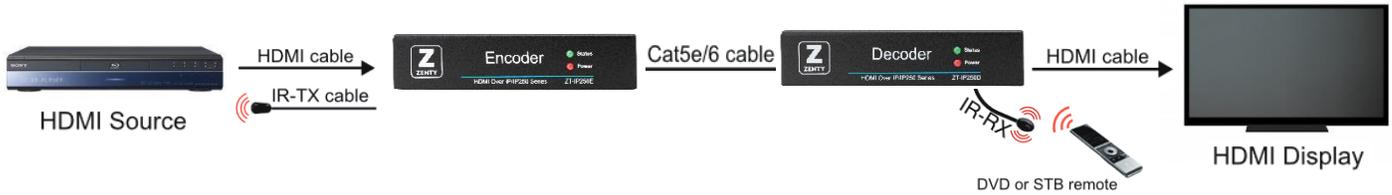
IR RX: IR receiver cable port
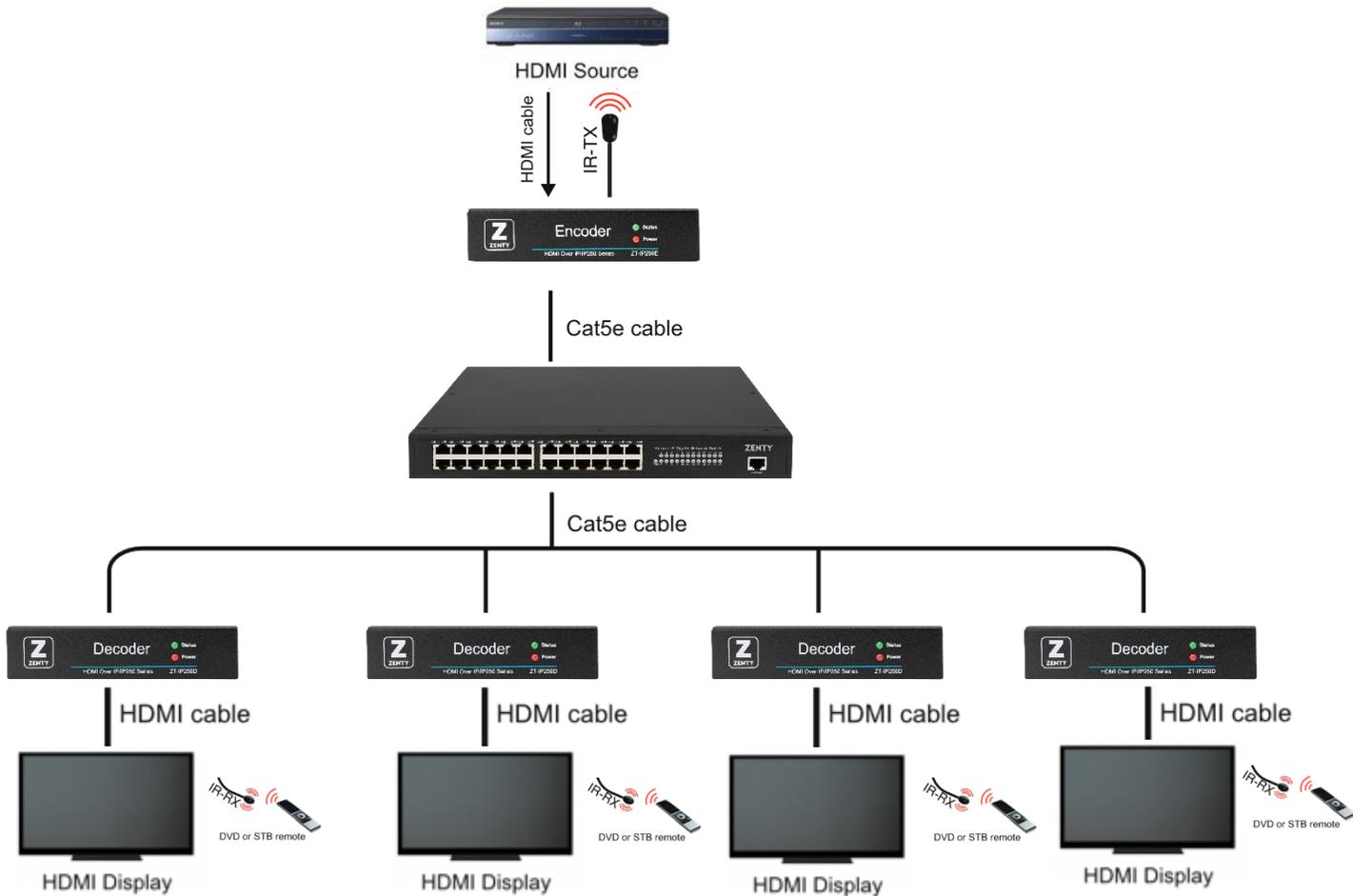
HDMI Output: Connect a display via HDMI cable

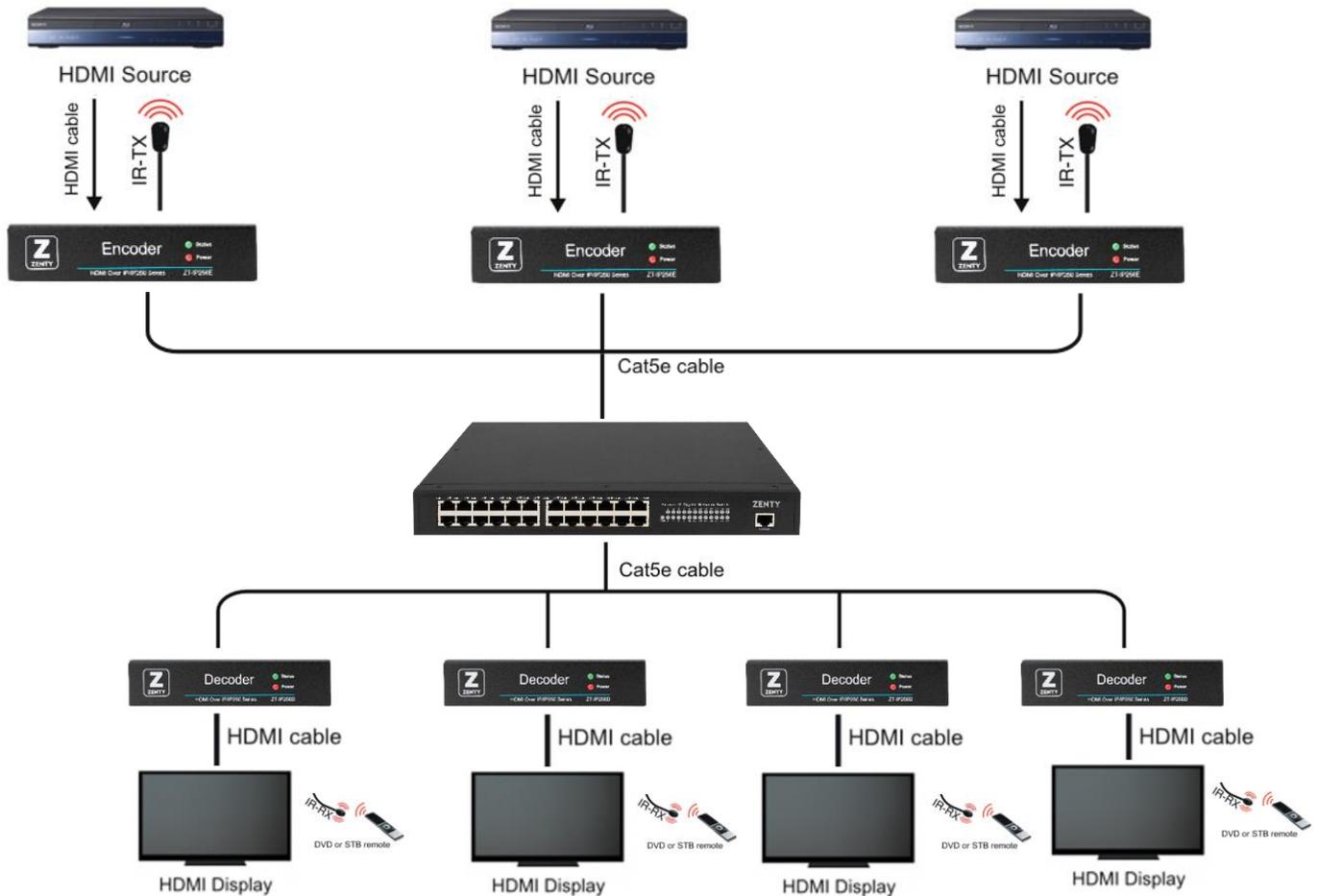**Reset:** Press and hold the reset button to factory reset encoder

5. Applications

Point – Point:

One – Many:

Many – Many:

6. Encoder and Decoder Setup

An HTTP server is embedded in each encoder and decoder. You can set up the IP address for these extenders via web browser.

Default IP and MAC address for the encoder: **192.168.168.55 | 00:0b:78:00:60:01**

Default IP and MAC address for the decoder: **192.168.168.56 | 00:0b:78:00:60:02**

Step 1: Assign your PC (or laptop) a static IP address: Control Panel → Network Connections → Local Area Connection Status → Properties → Internet Protocol (TCP/IP). In the IP field, type 192.168.168.11 (0-255), and subnet mask with 255.255.255.0. Press "Ok" to save the changes.

Step 2: Use an ethernet cable to connect the PC or laptop to the HDMI extender. The status light on the extender will turn green.

Step 3: Ping the connected device through the sequence on the computer. Start → Run → Type "CMD" and hit enter → Type "ping 192.168.168.55" for Encoder or "ping 192.168.168.56" for decoder. You will receive a reply if the connection is established.

Step 4: Open a browser, and type 192.168.168.55 for encoder or 192.168.168.56 for decoder. Within the WebGUI of the extender, you can set up the IP address, MAC address, subnet mask, gateway etc. If using multiple encoders and decoders, please make sure to set each encoder or decoders IP address differently, such as 192.168.168.XX (XX: 1-255). Also, set MAC address for encoder and decoders 00:0b:78:XX:XX:XX (XX: 01-FF). The MAC address for each encoder and decoder must be different.

Step 5: Click the "Apply" button, and the green LED on the device with go off. This ensures that you have successfully set up the IP address for encoder and decoder.

Note: If you need to reset the device to factory settings, please power on the device, wait for the status light to turn green, and then press and hold the reset button for 10 seconds. The green light will turn off indicating that the device has been restored to its factory settings.

7. Maintenance

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

8. 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 (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.

9. 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.

10. 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 CONSEQUENTAIL 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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