Zenty | Professional A/V Solution Provider

User Manual [V1.0]

Modular Matrix 4K 30Hz HDBaseT Input Card 328ft.

ZT-130 | ZT-MINB430

HDMI
HIGH DEFINITION MULTIMEDIA INTERFACE

RoHS compliant

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1. Introduction

This is a 1-card 1-port 4K30 HDBaseT input card which is to be used with Zenty chassis, including 9x9, 16x16, 18x18 and 36x36. It supports HDMI loop out or this HDMI loop can be used for the EDID management function by working with the DIP switch on the card. It also supports bi directional IR and the RS232 transmission. It uses HDBaseT technology so it can support POC for the HDBaseT transmitters. The distance can up to 230ft. (70m) for 4K30 or 330ft. (100m) for 1080P.

2. Features

- Output resolution up to 4K30
- Supports HDBaseT input with one HDMI loop out
- Distance up to 70m/220ft at 4K30 or 100m/330ft at 1080P over single Cat6/7
- Supports RS232, bi-directional IR
- PoC (Power over Cable) function

3. Specifications

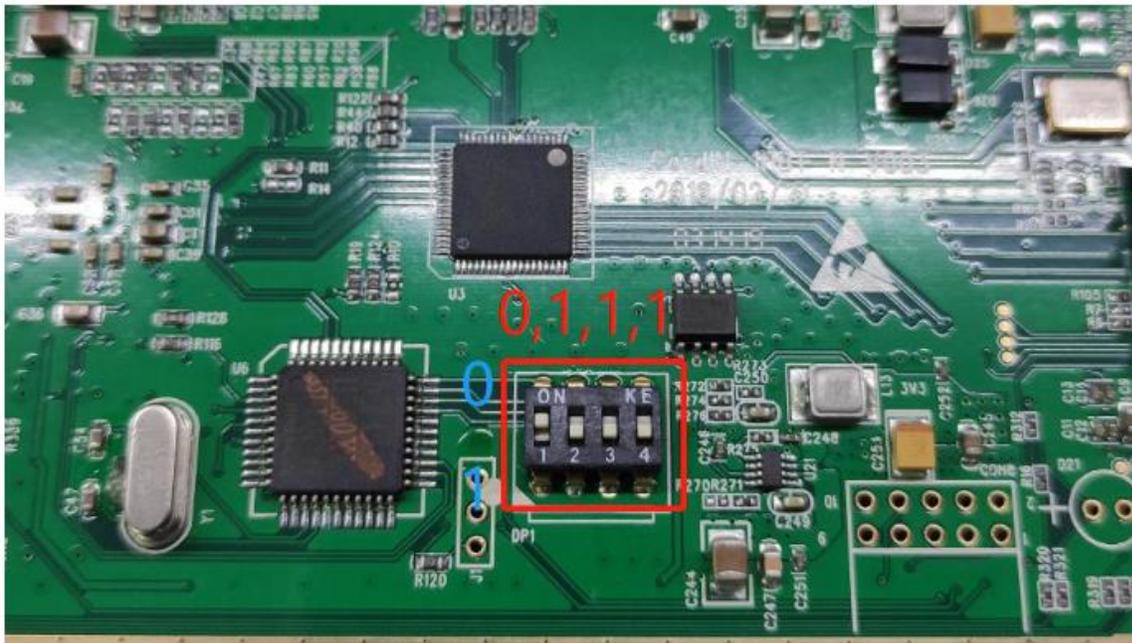| Audio and Video	
Inputs	1 x HDBaseT In: RJ-45
Outputs	1 x HDMI In: 19-pin Type-A
EDID	4-Pin Dip Switch for internal EDID or simulating from the display
Latency	15 – 30ms
Audio Formats	2ch PCM. DTS-HD Master, TrueHD
Video Resolutions and Cable Distances	720P 60Hz 12-bit: Up to 330ft. / 100m 10800P 30Hz 12-bit: Up to 330ft. / 100m

	1080P 60Hz 12-bit: Up to 330ft. / 100m
	2160P 20Hz 8-bit: Up to 220ft. / 70m
Standards / Protocol	HDCP 1.4
Maximum Pixel Clock	HDMI: 296Mhz
Communication and Protocol	
HDBaseT	HDMI, HDCP 1.4, EDID, PoH / PoC, Bi-directional IR, RS232
IR	1 x IR RX (3.5mm), 1 x IR TX (3.5mm)
RS232	3-Pin phoenix connector
Power	
Power Supply	Internal to / from matrix

4. EDID Setup

Step 1:

No need to turn off the matrix. Unplug the HDBaseT input card from the Matrix Switcher chassis, have the 4-DIP switch (DIP1, DIP2, DIP3, DIP4) set up to position (0,1,1,1). Have an HDMI cable connected to the display from HDMI port on the HDBaseT input card, The HDBaseT port can stay connected to the transmitter.

Insert the HDBaseT input card back to the matrix switcher, wait for about 15 seconds.

Step 2:

 Plug out the HDBaseT input card and have the 4-pin DIP switch (DIP1, DIP2, DIP3, DIP4) set up to position (0,0,0,0). Then insert the HDBaseT input card back to the matrix and disconnect the HDMI cable. EDID setup is finished.

POC DIP switch on the HDBaseT card

There's a 4-pin black DIP on the HDBaseT card, it's able to set up the POC function as 12V, 24V and POC function off.
Set POC to 12V: Have the DIP switch A & B up, and the C & D to down position.

Set POC to 24V: Have the DIP switch A & C down, and the B & D to up position.

5. Maintenance

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

6. 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.

7. 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.

8. 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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