TEK411RA

79045RA

Ultra-thin HDBaseT Receiver

131ft/40m 4K UHD, support audio de-embedding

Statement

Read this user manual carefully before using this product. Pictures shown in this manual is for reference only, different model and specifications are subject to real product. This manual is only for operation instruction only, not for any maintenance usage. The functions described in this version are updated till February 13, 2017. In the constant effort to improve our product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

Safety Precaution

To insure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not expose the unit to rain, moisture or install this product near water.
- Install the device in a place with fine ventilation.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Refer all servicing to qualified service personnel.

After-sales Service

We provide limited warranty for the product within **three years** counting from the first day you buy this product (The purchase invoice shall prevail).
For more details, please contact your distributor.

Introduction

TPUH411RA is an Ultra-thin HDBaseT Receiver designed with audio de-embedded outputs. It receives 4K/1080p HDMI signal via CAT5e/CAT6a cable from HDBaseT Transmitter or Matrix Switcher at 131'/230'

Unit supports unidirectional PoH operation; the receiver can be powered by HDBaseT Transmitter or Matrix Switcher.

Features

- Supports HDMI1.4 & HDCP2.2, and is backward compatible to the previous version.
- Maximum transmission distance is up to 40m (131ft) at 4Kx2K, and 70m (230ft) at 1080p.
- Supports bi-directional IR and RS232 pass-through for long-distance control.
- Supports **unidirectional** PoH for simplified wiring, and compatible with 48VDC PoC, the HDBaseT Receiver can be **powered by HDBaseT Transmitter** or Matrix Switcher.
- Supports audio de-embedded outputs.

Package List

- 1 x TPUH411RA Receiver
- 2 x Mounting Ears & 2 x Screws
- 1 x User Manual

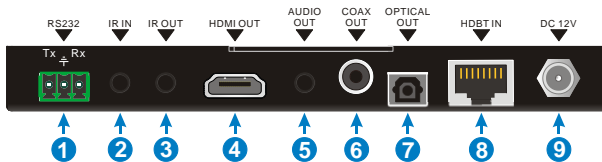- 1 x 3-Pin Phoenix Connector (Male)
- 4 x Plastic Cushions

Panel Description

Front Panel

No.	Name	Description
①	RS232 MODE switcher	CTRL: RS232 pass-through control mode; UPDATE A: Update Valens IC program, connect a PC to the RS232 port, and then double-click the update file (.bat). UPDATE B: Update the IC program which is used for de-embedding audio, the upgrade method is the same as the above UPDATE A.
②	Link status LED	OFF: No Link; GREEN:Link successful.
③	HDCP compliant LED	OFF: No HDMI traffic (no picture); GREEN: Traffic with HDCP; Blinking: Traffic without HDCP.
④	Power LED	OFF: No power; RED: DC power present.

Rear Panel

No.	Name	Description
①	RS232 connector	If one is connected with control device (e.g. PC), and the other should be connected with the third-party that need to be controlled.
②	IR IN	Work with far-end IR OUT port, connect with IR Receiver (with carrier) to collect IR signal to control far-end display device from local.
③	IR OUT	Work with far-end IR IN port, connect with IR Emitter to send IR signal to control input source device.
④	HDMI OUT	HDMI type A connector, connect to display.
⑤	AUDIO OUT	3.5mm stereo audio jack, connect to analog stereo audio device.
⑥	COAX OUT	Coaxial audio connector, connect to digital audio device.
⑦	OPTICAL OUT	Optical audio connector, connect to optical audio devices.
⑧	HDBT IN	Connect to the HDBT OUT socket on HDBaseT Transmitter or Matrix

		Switcher via CAT5e/6a/7 cable, support unidirectional PoH technology.
⑨	DC 12V power port	Connect to 12VDC power adaptor, or it can be powered via the HDBaseT Transmitter or Matrix Switcher by unidirectional PoH technology.

Specification

Video& Audio	
Input	HDBT IN
Output	HDMI OUT; AUDIO OUT; COAX OUT; OPTICAL OUT
Control Ports	IR IN, IR OUT, RS232
General	
Transmission Mode & Distance	HDBaseT; 1080P ≤ 70m; 4K×2K ≤ 40m
Resolution	Up to 4K×2K@60Hz 4:2:0
Bandwidth	10.2Gbps
HDMI Standard	HDMI1.4 & HDCP2.2
Power Consumption	10W (max)
Temperature	-10℃~ 50℃
Humidity	0% ~ 90%
Power Supply	Powered by HDBaseT Transmitter or Matrix Switcher
Dimension (W*H*D)	5.98"x6.3"3.94"
Net Weight (g)	7.8oz

System Diagram

Place power supply at Transmitter only.