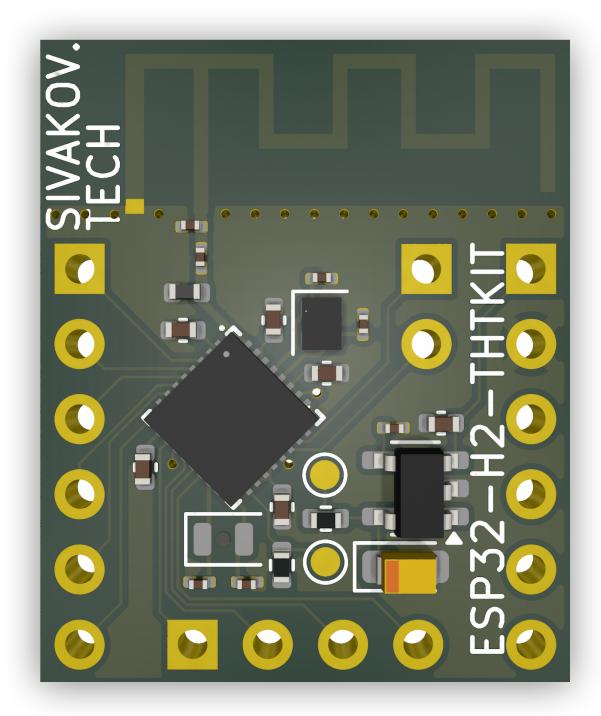
# **ESP32-H2-THTKIT**

## Ultra-Compact THT-Friendly DevKit



Revision: v1.0.0

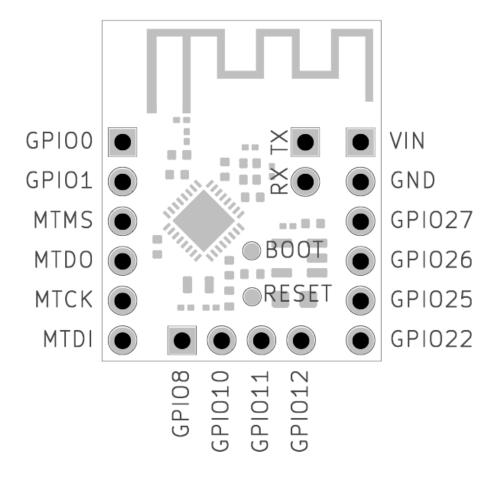
SIVAKOV.TECH Page 1 of 7

#### **Overview**

ESP32-H2-THTKIT is an ultra-compact development board based on the ESP32-H2FH4 SoC. Designed for direct integration into through-hole (THT) projects, it contains only the essential components and remains breadboard-friendly. UART debug pins are routed to the top for easy access during development, regardless of installation density.

SIVAKOV.TECH Page 2 of 7

#### **Pinout & Layout**



- Left header (THT): GPIO0 to GPIO5 (also FSPI2-capable)
- Right header (THT): VIN, GND, GPIO27 to GPIO22
- Bottom header (THT): GPIO8, GPIO10, GPIO11, GPIO12 (can be used as JTAG)
- Top edge: UART TX/RX pins
- BOOT/RESET: pad-based activation (short to GND)
- Pin pitch: 2.54 mm standard
- Bottom header deliberately offset by 1.27 mm (half pitch) to prevent accidental shorts when inserted into a breadboard

SIVAKOV.TECH Page 3 of 7

## **Programming & Debugging**

- UART programming recommended via top pins
- JTAG support via GPIO8/10/11/12 (if remapped)

No USB functionality

SIVAKOV.TECH Page 4 of 7

## **Electrical**

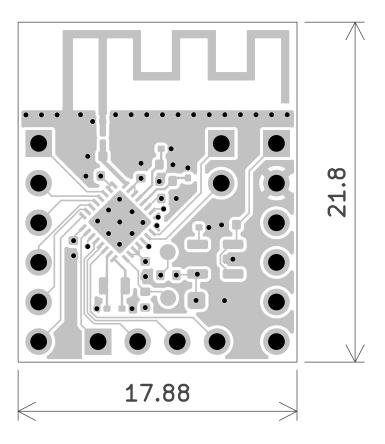
• Input Voltage: 3.3V to 12V

• On-board LDO stabilizes to 3.3V

No onboard USB

SIVAKOV.TECH Page 5 of 7

## **Mechanical**



• Dimensions: 21.8 mm x 17.88 mm

• 3x THT headers: left, right, and optional bottom (user-soldered)

SIVAKOV.TECH Page 6 of 7

## Reference

• ESP32-H2 Datasheet (Espressif)

SIVAKOV.TECH Page 7 of 7