

Espressif ESP32-H2-DevKitM-1

ESP32-H2-DevKitM-1-N4S Development Board User Manual

Brand: Espressif

1. PRODUCT OVERVIEW

The ESP32-H2-DevKitM-1-N4S is an entry-level development board designed by Espressif. It is based on the ESP32-H2-MINI-1 combo module, which integrates Bluetooth Low Energy and IEEE 802.15.4 wireless communication protocols. This board is suitable for a wide range of IoT applications, offering robust connectivity and processing capabilities with its 4 MB flash memory and chip revision v1.2 or above.

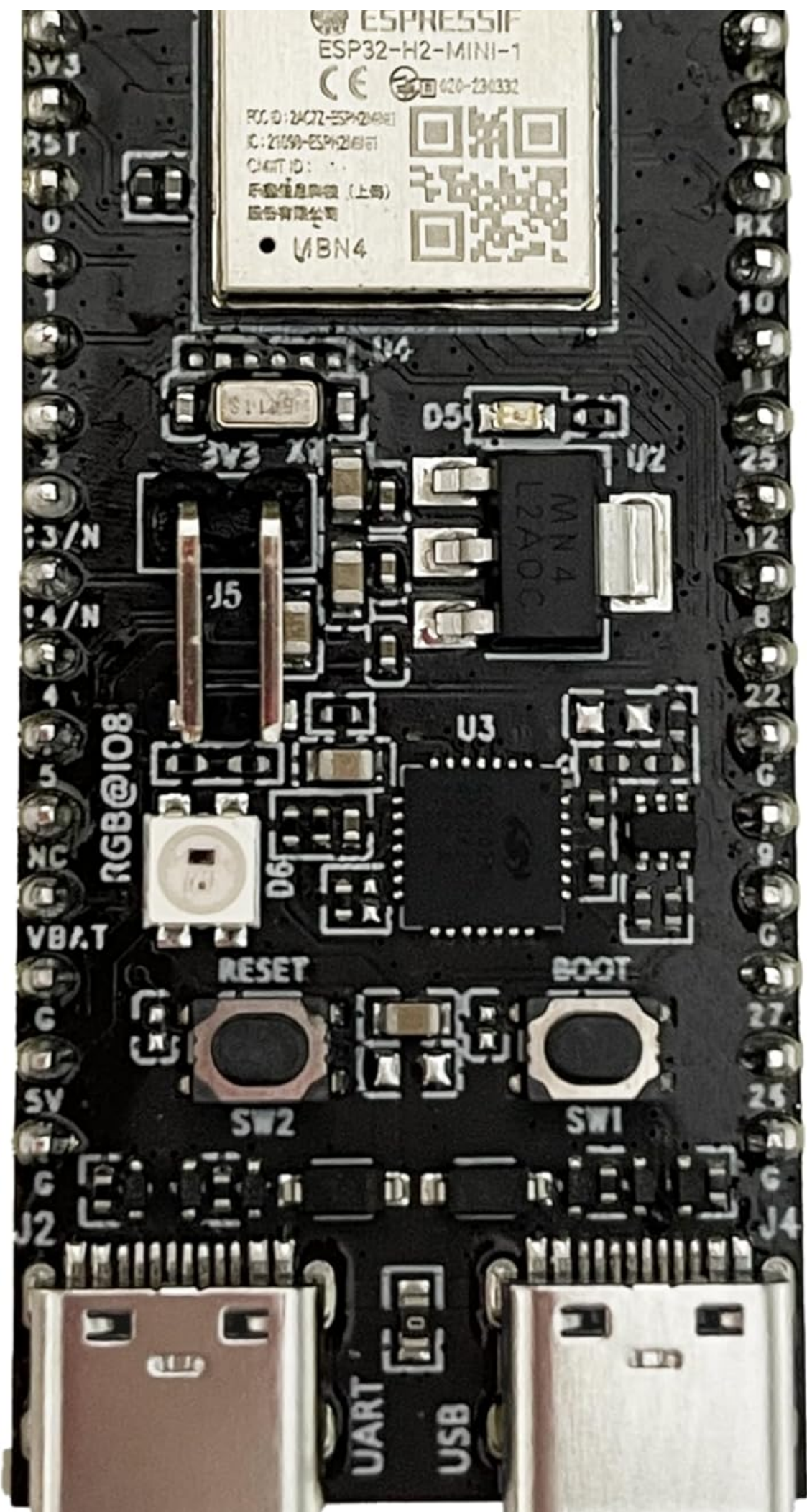
Key Features

- Integrated ESP32-H2-MINI-1 module
- Bluetooth Low Energy (BLE) connectivity
- IEEE 802.15.4 support (e.g., Zigbee, Thread)
- 4 MB flash memory
- Chip revision v1.2 and above
- Multiple GPIO pins for peripheral connections
- USB-C ports for power and UART communication

Package Contents

- 1 x ESP32-H2-DevKitM-1-N4S Development Board (Chip)







This image displays the ESP32-H2-DevKitM-1-N4S Development Board. Visible components include the central ESP32-H2-MINI-1 module with its branding and QR code, multiple pin headers along the sides, reset and boot buttons (SW2 and SW1), and two USB-C ports at the bottom, labeled UART and USB. The board is black with silver components and white markings.

2. SETUP GUIDE

This section outlines the basic steps to set up your ESP32-H2-DevKitM-1-N4S Development Board for initial use.

Initial Connection

1. **Connect to Power/Data:** Use a compatible USB-C cable to connect one of the USB-C ports on the development board to your computer. The board can be powered via the USB connection.
2. **Driver Installation:** Your operating system may require specific drivers for the USB-to-UART bridge. Refer to Espressif's official documentation or website for the latest driver downloads and installation instructions.
3. **Development Environment Setup:** To program the board, you will need to set up a suitable development environment. Espressif provides comprehensive guides for various IDEs and toolchains on their official website.

3. OPERATION INSTRUCTIONS

The ESP32-H2-DevKitM-1-N4S is designed for flexible operation, supporting various programming and communication methods.

Programming the Board

Once your development environment is set up, you can upload firmware to the ESP32-H2-DevKitM-1-N4S. Typically, this involves:

- Writing your application code using the Espressif IoT Development Framework (ESP-IDF) or other compatible SDKs.
- Compiling the code to generate a binary file.
- Using the esptool.py utility or your IDE's integrated flashing tool to upload the binary to the board via the USB-UART interface.

For detailed programming guides and examples, please consult the official Espressif documentation.

Using Connectivity Features

The board supports both Bluetooth Low Energy (BLE) and IEEE 802.15.4 protocols. These can be utilized in your applications for short-range wireless communication:

- **Bluetooth Low Energy:** Ideal for low-power applications requiring communication with smartphones,

tablets, or other BLE-enabled devices.

- **IEEE 802.15.4:** Enables communication with devices using protocols like Zigbee or Thread, suitable for mesh networking in smart home or industrial automation scenarios.

Specific API usage and examples for these connectivity features are available in the ESP-IDF programming guides.

4. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your ESP32-H2-DevKitM-1-N4S Development Board, please follow these maintenance guidelines:

- **Handle with Care:** The board contains sensitive electronic components. Avoid dropping it or subjecting it to physical shocks.
- **Keep Dry:** Protect the board from moisture, humidity, and liquids. Water damage can cause irreversible harm.
- **Temperature Control:** Operate and store the board within its specified temperature range. Avoid extreme heat or cold.
- **Cleanliness:** Keep the board free from dust and debris. If cleaning is necessary, use a soft, dry brush or compressed air. Do not use liquid cleaners.
- **Static Electricity:** Take precautions against electrostatic discharge (ESD) when handling the board, as ESD can damage components.

5. TROUBLESHOOTING

If you encounter issues with your ESP32-H2-DevKitM-1-N4S Development Board, consider the following common troubleshooting steps:

- **No Power/LEDs Off:** Ensure the USB-C cable is securely connected to both the board and your computer/power source. Try a different USB port or cable.
- **Failed Firmware Upload:** Verify that the correct COM port is selected in your flashing tool. Ensure all necessary drivers are installed. Try pressing the BOOT button (SW1) while connecting or resetting the board, then releasing it during the upload process.
- **Communication Errors:** Check if the correct baud rate is set for serial communication. Ensure no other applications are using the COM port.
- **Unexpected Behavior:** Review your code for logical errors. Ensure all external components are correctly wired and powered.

For more complex issues or detailed debugging, refer to the extensive documentation and community forums available on Espressif's official website.

6. TECHNICAL SPECIFICATIONS

Property	Value
Brand	Espressif
Model Name	ESP32-H2-DevKitM-1
Series	ESP32-H2-DevKitM-1
Memory Storage Capacity	4 MB
Connectivity Technology	Bluetooth Low Energy, GPIO, IEEE 802.15.4
Included Components	Chip
Operating System	FreeRTOS (Supported)
Item Weight	1.13 ounces
Package Dimensions	3.58 x 2.09 x 0.94 inches
Processor Brand	Espressif
Number of Processors	1
ASIN	B0F93THVL7
Date First Available	May 19, 2025

7. WARRANTY AND SUPPORT

For detailed warranty information regarding your ESP32-H2-DevKitM-1-N4S Development Board, please refer to the official Espressif website or the documentation provided with your purchase.

Technical Support

Espressif provides comprehensive resources for technical support:

- **Official Website:** Visit the Espressif official website for user guides, technical documentation, datasheets, and software development kits (SDKs).
- **Email Support:** For further business or technical questions, you may contact Espressif directly via email at sales@espressif.com.
- **Community Forums:** Espressif maintains active community forums where you can find answers to common questions and interact with other developers.

Related Documents - ESP32-H2-DevKitM-1

 ESP32-H2-DevKitM-1 Development Board User Guide	ESP32-H2-DevKitM-1 Development Board User Guide Comprehensive user guide for the ESP32-H2-DevKitM-1 development board from Espressif, detailing its features, components, pinouts, ordering information, and getting started instructions for IoT and embedded projects.
 ESP32-S3 dev-kits Documentation	ESP32-S3 DevKits Documentation Comprehensive documentation for Espressif's ESP32-S3 series development boards, including the ESP32-S3-DevKitC-1, ESP32-S3-DevKitM-1, ESP32-S3-USB-OTG, and ESP32-S3-LCD-EV-Board. This guide provides getting started instructions, hardware references, revision details, and related resources for developers.
 ESP32-S3 dev-kits Documentation	ESP32-S3 Development Boards Documentation Espressif Systems Comprehensive documentation for Espressif Systems' ESP32-S3 development boards, including DevKitC-1, DevKitM-1, USB-OTG, LCD-EV-Board, and USB-Bridge. Guides cover setup, hardware, and application development.
 ESP32-DevKitM-1 Development Board User Guide	Espressif ESP32-DevKitM-1 Development Board User Guide A comprehensive user guide for the Espressif ESP32-DevKitM-1 development board, detailing its features, components, setup instructions, and pin descriptions. Suitable for developers working with the ESP32-MINI-1 and ESP32-MINI-1U modules.
 ESP32-C3-DevKitM-1 Development Board User Guide	ESP32-C3-DevKitM-1 Development Board User Guide Espressif Comprehensive user guide for the Espressif ESP32-C3-DevKitM-1 development board, covering hardware setup, component descriptions, pinouts, and related documentation for Wi-Fi and Bluetooth LE projects.

ESP32

ESP-IDF Programming Guide



[ESP32 ESP-IDF Programming Guide - Espressif Systems](#)

Comprehensive guide to setting up and using the Espressif IoT Development Framework (ESP-IDF) for ESP32 microcontrollers, covering installation, programming, API references, and hardware integration.

Documents - Espressif – ESP32-H2-DevKitM-1



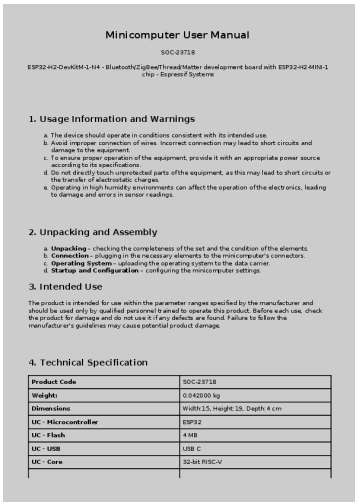
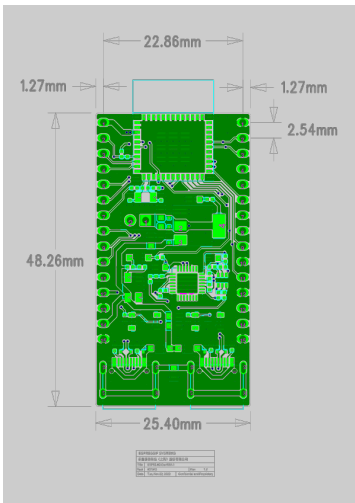
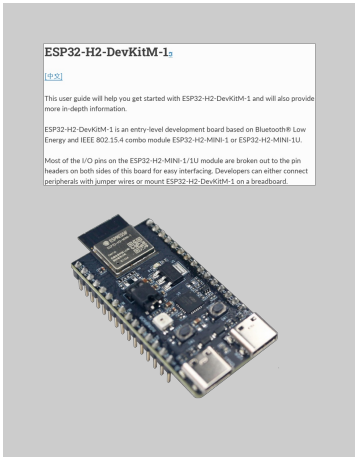
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development board based on Bluetooth Low Energy and IEEE 802.15.4 com
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DevKitM-1 and will also provide more in-depth information. ESP32-H2-DevKitM-1 is
an entry-level development board based on Bluetooth Low Energy and IEEE 802.15.4
combo module ESP32-H2-MINI-1 or ESP32-H2-MINI-1U. Most of th...
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J41x717 J42x020 R115 1.27mm 43 2.54mm 13 11 14 U1 JD65C7CCR121106R142
11 J12 48.26mm J21x818 21 J2x21 J2x22 J21x1 J22x2 J2...
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Instructions ESP32 H2 DevKitM 1 N4 Bluetooth ZigBee Thread Matter development board with MINI chip
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product damage 4 Technical Specification Product Codeinstructions gpsr 23718 2025 08 19botland pl
module bl id lang |||
Minicomputer User Manual SOC-23718 ESP32-H2-DevKitM-1-N4 -
Bluetooth/ZigBee/Thread/Matter development board with ESP32-H2-MINI-1 chip -
Espressif Systems 1. Usage Information and Warnings a. The device should operate
in conditions consistent with its intended use. b. Avoid improper connection of wi...
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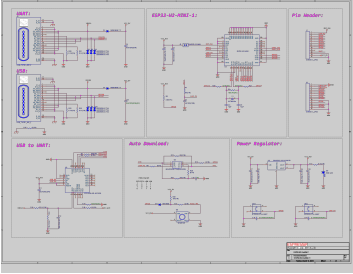
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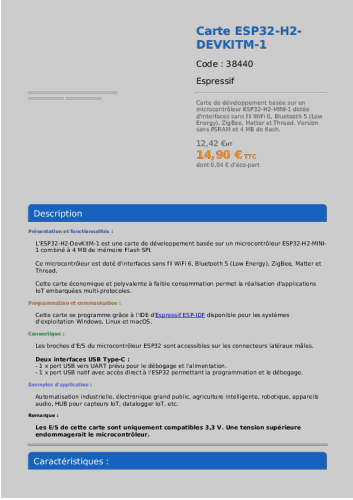
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lang:fr score:41 filesize: 30.07 K page_count: 2 document date: 2025-01-08

EU Declaration of Conformity

Hereby we,

Name of Manufacturer	ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD.
Address	Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park
Zip code & City	Shanghai, China (201203)

declare that this DoC is issued under our sole responsibility and that these products

Product Description	Wi- Fi & Bluetooth Internet of Things Module
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Trade Name	ESPRESSIF
Type Designations	See Annex

are in conformity with:

- RoHS Directive (EU) 2015/863 amending Annex II to Directive (EU) 2011/65/ EU.
- RE Directive 2014/53/ EU with reference to the following standards applied:

Radio	ETSI EN 300328 V2.2.2
EMC	EN 301489-1 V2.2.3
	EN 301489-17 V3.2.4
	EN 55032:2015 + A11:2020
	EN 55035:2017 + A11:2020
Health	EN IEC 62311:2020 EN 50665:2017
Safety	EN IEC 62368-1:2020 + A11:2020

Signature:

Name:	Mia Zhou
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Title: Certification Engineer

Date: 2024-07-02

Company: ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD

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文件编号 Document No.	ESP-07-2-007-03	文件名称 Document Name	产品/工艺变更通知 Product/Process Change Notice (PCN)
文件版本 Document Version	1.4	保存期限 Retention Period	5年 5 years

Update ESP32-42 Series Products

升级 ESP32-42 系列产品

PCN 编号

PCN 标题

发布日期

Proposed Date of Change

PCN 系列/PCN Category

1. 系列/客户/Affected Products

发布日期

Issue Date of PCN

预计变更发布日期

Proposed Date of First Shipment

客户变更/客户/Customer Approval Required

客户变更/客户/Customer Notification

受影响的系列: ESP32-42 系列芯片, 无线芯片, 模块, 开发板, 其他相关产品

The affected products include the ESP32-42 series chips, modules, and development boards. The specific model list is as follows:

1. 芯片系列 Chip Products

ESP32-42 系列芯片

Original Chip Name

更新后芯片名称

Updated Chip Name

ESP32-42M01

ESP32-42M01

Chip version from v0.1 to v1.0

ESP32-42M02

ESP32-42M02

2. 模块系列 Module Products

ESP32-42 系列模块

Original Module Name

更新后模块名称

Updated Module Name

ESP32-42M01-1

ESP32-42M01-1

ESP32-42M01

ESP32-42M01-2

ESP32-42M01-2

ESP32-42M01

ESP32-42M01-3

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文件版本 Document Version	1.4	保存期限 Retention Period	5 年 5 years

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Espressif EU Declaration of Conformity for Wi-Fi & Bluetooth IoT Modules

Official EU Declaration of Conformity from Espressif Systems for their Wi-Fi and Bluetooth Internet of Things modules, confirming compliance with RoHS and RE directives.

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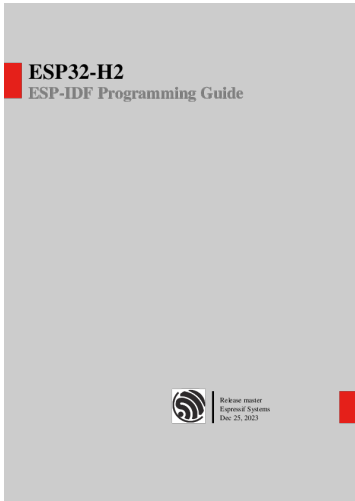
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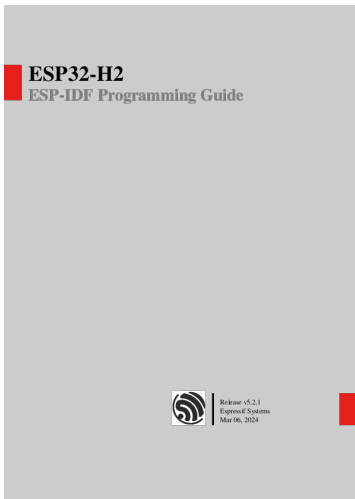


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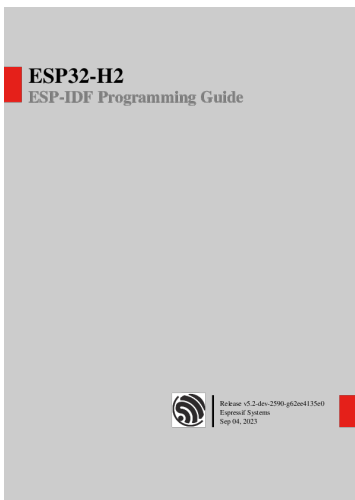


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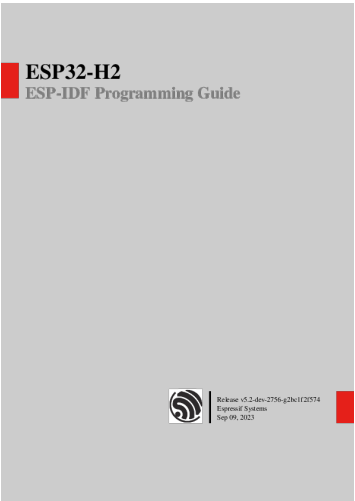


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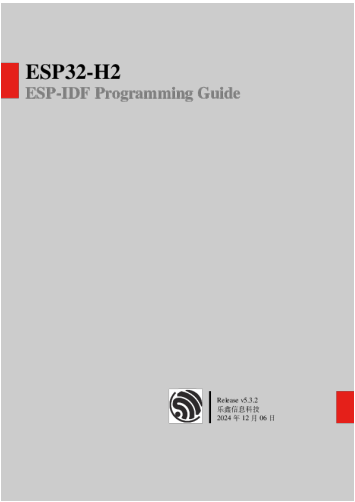
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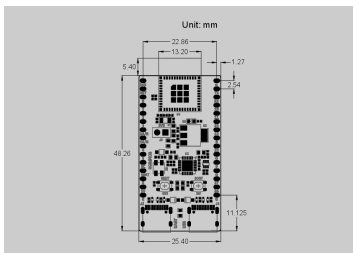
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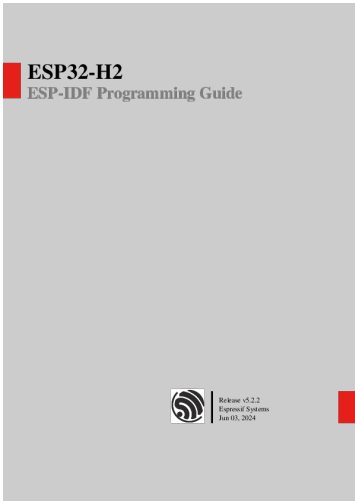


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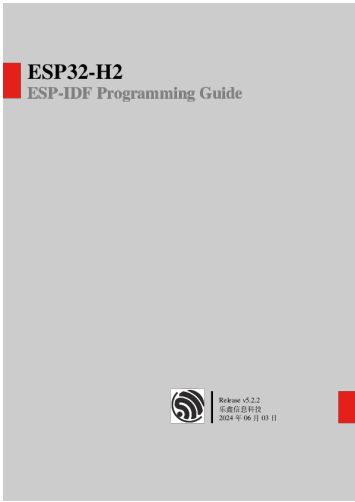
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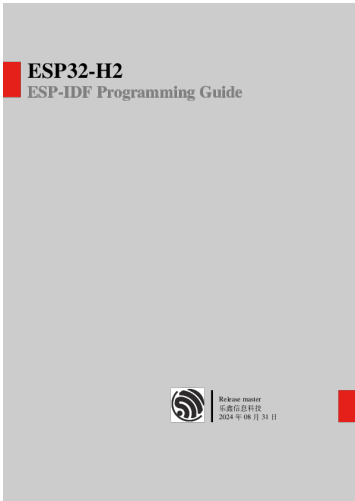
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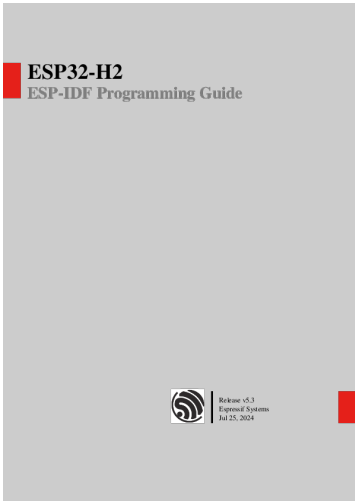
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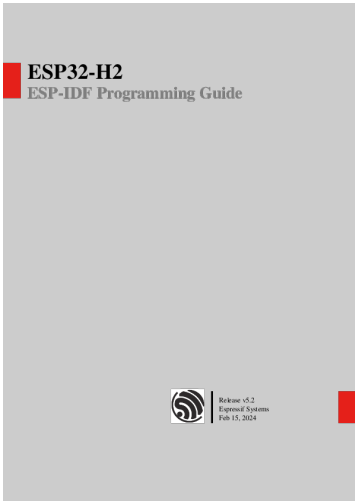


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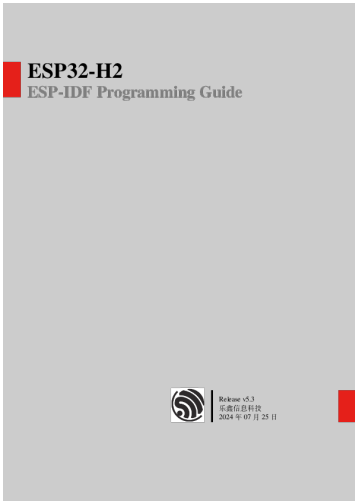


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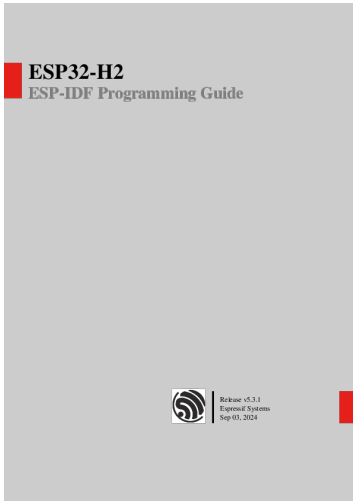


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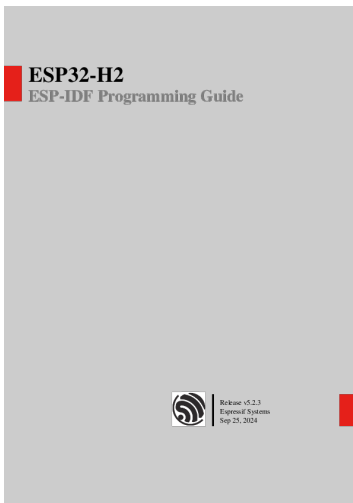


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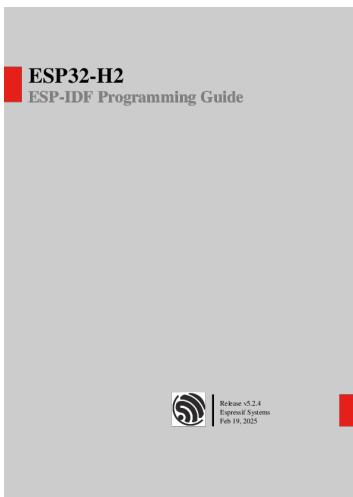


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