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- › [ESP32-WROOM-32E\(4MB\) Module 32E-N4 Instruction Manual](#)

Espressif 32E-N4

ESP32-WROOM-32E(4MB) Module Instruction Manual

Model: 32E-N4 | Brand: Espressif

1. PRODUCT OVERVIEW

The ESP32-WROOM-32E is a powerful, generic Wi-Fi+BT+BLE MCU module that targets a wide variety of applications, ranging from low-power sensor networks to the most demanding tasks, such as voice encoding, music streaming, and MP3 decoding. This module is an SMD (Surface Mount Device) module, designed for integration into larger electronic systems.



Figure 1: ESP32-WROOM-32E(4MB) Module. This image displays the top view of the module, showing the Espressif logo, the module name "ESP32-WROOM-32E", and a QR code. The module features an integrated PCB antenna.

Key Features:

- 2.4 GHz Wi-Fi (802.11 b/g/n)
- Bluetooth V4.2 BR/EDR and Bluetooth LE specification
- 4 MB flash in chip package
- On-board PCB antenna connector

2. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon opening the package:

- ESP32-WROOM-32E(4MB) Module (Quantity as per order, typically packaged in reels of 10 units)
- Integrated PCB antenna

3. SETUP AND INTEGRATION

The ESP32-WROOM-32E is an SMD module designed for integration into custom PCB designs. Proper setup requires knowledge of electronics and soldering techniques.

3.1. Hardware Integration:

- **Power Supply:** The module operates on a 3.3V power supply. Ensure a stable and clean power source is provided to the VCC pins. Refer to the module's datasheet for specific voltage ranges and current requirements.
- **Pin Connections:** Connect the module's pins to your custom PCB according to your application's design. Pay close attention to GPIO, UART, SPI, I2C, and other peripheral connections.
- **Soldering:** The module is designed for surface-mount soldering. Use appropriate soldering equipment and techniques to ensure secure and reliable connections. Avoid excessive heat to prevent damage to the module.
- **Antenna:** The module includes an on-board PCB antenna. Ensure no metallic objects or ground planes are placed directly above or too close to the antenna area on your PCB to avoid signal interference.

3.2. Development Environment Setup:

To program the ESP32-WROOM-32E, you will need to set up a development environment. Espressif provides the ESP-IDF (Espressif IoT Development Framework), which is the official development framework for ESP32.

- **Install ESP-IDF:** Follow the official Espressif documentation to install the ESP-IDF on your operating system. This includes installing necessary toolchains and libraries.
- **Connect to PC:** For initial programming and debugging, you will typically need a USB-to-UART bridge connected to the module's UART pins (TX, RX) and appropriate boot mode pins (GPIO0, EN).
- **Flash Firmware:** Use the ESP-IDF tools (e.g., esptool.py) to flash your compiled firmware onto the module.

4. OPERATING PRINCIPLES

The ESP32-WROOM-32E operates as a powerful microcontroller with integrated Wi-Fi and Bluetooth capabilities. Its functionality is determined by the firmware loaded onto its flash memory.

4.1. Wi-Fi Operation:

The module supports 802.11 b/g/n Wi-Fi standards. It can operate in Station mode (connecting to an access point), SoftAP mode (acting as an access point), or a combination of both. Firmware can be developed to handle network connections, data transmission, and cloud communication.

4.2. Bluetooth Operation:

The module supports Bluetooth V4.2 BR/EDR and Bluetooth LE (Low Energy). This allows for short-range wireless communication with other Bluetooth-enabled devices. Applications include sensor data collection, device control, and audio streaming.

4.3. Microcontroller Functions:

Beyond wireless communication, the ESP32-WROOM-32E features a powerful dual-core processor and a rich set of peripherals (GPIOs, ADC, DAC, SPI, I2C, UART, PWM, etc.). These can be programmed to interact with external sensors, actuators, and other electronic components, enabling a wide range of IoT and embedded applications.

5. MAINTENANCE AND CARE

To ensure the longevity and reliable operation of your ESP32-WROOM-32E module, follow these guidelines:

- **Handle with Care:** The module is a sensitive electronic component. Avoid dropping it or subjecting it to physical shock.
- **Electrostatic Discharge (ESD) Protection:** Always handle the module in an ESD-safe environment, using anti-static mats and wrist straps, to prevent damage from static electricity.
- **Environmental Conditions:** Operate and store the module within its specified temperature and humidity ranges. Avoid exposure to extreme temperatures, direct sunlight, moisture, and corrosive environments.
- **Power Supply Stability:** Ensure the power supply is stable and within the specified voltage range (3.3V). Voltage fluctuations or overvoltage can damage the module.
- **Cleaning:** If necessary, clean the module gently with a soft, dry, lint-free cloth. Do not use liquid cleaners or solvents.

6. TROUBLESHOOTING

This section provides general troubleshooting tips for common issues. For more detailed technical support, refer to the Espressif documentation or community forums.

Problem	Possible Cause	Solution
Module not powering on/responding	Incorrect power supply voltage; loose connections; damaged module.	Verify 3.3V power supply; check all solder joints and connections; inspect module for visible damage.
Wi-Fi/Bluetooth connectivity issues	Antenna interference; incorrect firmware configuration; weak signal.	Ensure no obstructions near the PCB antenna; review firmware for correct Wi-Fi/Bluetooth settings; check signal strength in the operating environment.
Firmware flashing failure	Incorrect boot mode; faulty USB-to-UART converter; driver issues; incorrect port selection.	Ensure module is in flashing mode (GPIO0 low during reset); check USB-to-UART converter and its drivers; select the correct COM port in your flashing tool.
Unexpected module resets/crashes	Unstable power supply; software bugs; hardware issues.	Provide a stable power supply with sufficient current capacity; debug your firmware for errors; check for any short circuits or cold solder joints.

7. SPECIFICATIONS

Detailed technical specifications for the ESP32-WROOM-32E(4MB) Module:

- Model:** 32E-N4
- SoC:** ESP32-D0WD-V3
- Flash Memory:** 4 MB SPI flash
- Wireless Connectivity:** 2.4 GHz Wi-Fi (802.11 b/g/n), Bluetooth V4.2 BR/EDR and Bluetooth LE
- Antenna:** On-board PCB antenna
- Operating System (Typical):** FreeRTOS (supported by ESP-IDF)
- Number of Processors:** 1 (Dual-core Tensilica Xtensa LX6 microprocessor)

Item Weight: Approximately 0.704 ounces (20 grams)
Package Dimensions: Approximately 5.91 x 4.96 x 0.51 inches (15 x 12.6 x 1.3 cm)
Manufacturer: Espressif
First Available Date: August 20, 2021

8. WARRANTY AND SUPPORT

8.1. Warranty Information:

Specific warranty details for the ESP32-WROOM-32E module are typically provided by the reseller or distributor at the time of purchase. As a component, warranty often covers manufacturing defects. Please retain your proof of purchase for any warranty claims.

8.2. Technical Support:

For comprehensive technical documentation, datasheets, application notes, and software development kits (SDKs), please visit the official Espressif website:

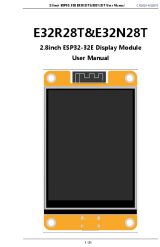
[Espressif Official Modules Page](#)

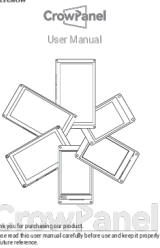
Espressif also maintains active community forums and GitHub repositories where you can find support, examples, and contribute to the development ecosystem.



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Related Documents - 32E-N4

	ESP32-DevKitC V4 Getting Started Guide Espressif A comprehensive guide to getting started with the ESP32-DevKitC V4 development board from Espressif. Learn about its features, components, and pinouts for easy interfacing and application development.
	2.8inch ESP32-32E Display Module User Manual User manual for the 2.8-inch ESP32-32E Display Module, covering resource description, software and hardware instructions, and precautions for use. Details include ESP32-WROOM-32E module, ILI9341 LCD controller, SPI communication, USB-to-serial conversion, and various circuit diagrams.

	3.5-inch ESP32-32E Display Module User Manual (E32R35T & E32N35T) Comprehensive user manual for the 3.5-inch ESP32-32E Display Module (models E32R35T and E32N35T). This guide details hardware resources, software development steps, schematic explanations for various circuits (Type-C, SPI, USB-to-Serial, audio, battery management, etc.), and essential usage precautions. Features the ESP32-WROOM-32E module, ST7796 display driver, and XPT2046 touch controller.
	Elecrow CrowPanel ESP32 Display User Manual User manual for the Elecrow CrowPanel ESP32 HMI displays, detailing package contents, interface layouts, technical specifications, and safety instructions.
	E32R32P & E32N32P 3.2-inch IPS ESP32-32E Display Module User Manual Comprehensive user manual for the E32R32P & E32N32P 3.2-inch IPS ESP32-32E Display Module, covering resource descriptions, software instructions, and detailed hardware explanations.
	E32R32P & E32N32P 3.2-inch IPS ESP32-32E Display Module User Manual This user manual provides a comprehensive guide to the E32R32P and E32N32P 3.2-inch IPS ESP32-32E Display Modules. It covers resource descriptions, software and hardware instructions, detailed explanations of schematic diagrams, and precautions for use. The manual details the module's components, including the LCD screen, resistive touch screen, ESP32-WROOM-32E module, various interface circuits, and power management.

 ESPRESSIF			
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
乐鑫推出新增越南海外工厂 Espressif Introduced a New Outsourced Module Manufacturing Factory in Vietnam			
PCN 编号 PCN No.	PCN20230201 v2	发布日期 Issue Date of PCN	2023/04/18
变更日期 Proposed Date of Change	2023/05/10	预计发货日期 Proposed Date of First Shipment After Change	2023/06/01
PCN 类别 / PCN Category	经客户同意/客户批准/客户通知 Customer Approval Required / Customer Notification		
1. 受影响产品 / Affected Product Name			
所有受影响模块: • ESP32-WROOM-32E-N4 (已于 2022 年 12 月切换至海外工厂生产) • ESP32-WROOM-32E-N8, ESP32-WROOM-32E-N16, (已于 2023 年 3 月切换至海外工厂生产) • ESP32-S3-WROOM-1 产品已通过验证, 适用于交付标准, 对于 2023 年 6 月切换至海外工厂生产, ESP32-S3-WROOM-1 的海外产品类型如下:			
Product Name		Product MPN	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N4	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N16	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N4R2	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8R2	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N16R2	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N4R8	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8R8	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N16R8	
• 其他规格导入由内部团队计划验证, 将由乐鑫直接提供, 以应客户需求。			
All Espressif modules: • ESP32-WROOM-32E-N4 was qualified and delivered from outsourced module manufacturing factory in Vietnam in December 2022. • ESP32-WROOM-32E-N8, ESP32-WROOM-32E-N16 was qualified and delivered from outsourced module manufacturing factory in Vietnam in March 2023.			
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N16 2023 3 gproxymedia digikey PCNs Espressif PCN20230201 v2 |||

Document No. Document Version ESP-07-2-007-03 1.4 Document Name Retention
Period / Product/Pr ... al Required PCN / PCN Category / Customer Notification 1. /
Affected Product Name ESP32-WROOM-**32E-N4** 2022 12 ESP32-WROOM-32E-
N8ESP32-WROOM-32E-N16 2023 3 ESP32-S3-WROOM-1 2023 6 ESP...

lang:en score:31 filesize: 222.1 K page_count: 3 document date: 2023-06-21

ESP32-WROOM-32E
ESP32-WROOM-32UE
Datasheet

2.4 GHz Wi-Fi + Bluetooth® + Bluetooth LE module
Built around ESP32 series of SoCs, Xtensa® dual-core 32-bit LX6 microprocessor
4/16 MB Flash available
80 GPIOs, rich set of peripherals
On-board PCB antenna or external antenna connector





ESP32-WROOM-32E
ESP32-WROOM-32UE

 Version 1.8
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[pdf] Specifications Datasheet Documentation

Espressif ESP32 WROOM 32E N4 Module d extension Wi Fi 1 pc s Conrad Electronic Suisse fiche
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ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth
Bluetooth LE module Built around E ... he two modules is as follows: Table 1:
ESP32WROOM32E Series Comparison1 Ordering Code ESP32-WROOM-**32E-N4**
ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4
ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

lang:en score:29 filesize: 1019.21 K page_count: 33 document date: 2023-04-18

 **ESPRESSIF**

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

保留期限

Retention Period

5 年

5 years

乐鑫推出新增越南海外工厂

Espressif Introduced a New Outsourced Module Manufacturing Factory in Vietnam

PCN 编号 PCN No.	PCN20230201 v2	发布日期 Issue Date of PCN	2023/04/18			
变更日期 Proposed Date of Change	2023/05/10	预计发货日期 Proposed Date of First Shipment After Change	2023/06/01			
PCN 类别 / PCN Category	经客户同意/客户批准/客户通知 Customer Approval Required / Customer Notification					
1. 受影响产品/ Affected Product Name						
所有受影响模块: • ESP32-WROOM-32E-N4 (已于 2022 年 12 月切换至海外工厂生产) • ESP32-WROOM-32E-N8, ESP32-WROOM-32E-N16, (已于 2023 年 3 月切换至海外工厂生产) • ESP32-S3-WROOM-1 产品已通过验证, 适用于交付标准, 对于 2023 年 6 月切换至海外工厂生产, ESP32-S3-WROOM-1 的海外产品类型如下:						
Product Name		Product MPN				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N4				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N16				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N4R2				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8R2				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N16R2				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N4R8				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8R8				
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N16R8				
• 其他规格导入由内部团队计划验证, 将由乐鑫直接提供, 以应客户需求。						

All Espressif modules:

- ESP32-WROOM-32E-N4 was qualified and delivered from outsourced module manufacturing factory in Vietnam in December 2022.
- ESP32-WROOM-32E-N8, ESP32-WROOM-32E-N16 was qualified and delivered from outsourced module manufacturing factory in Vietnam in March 2023.

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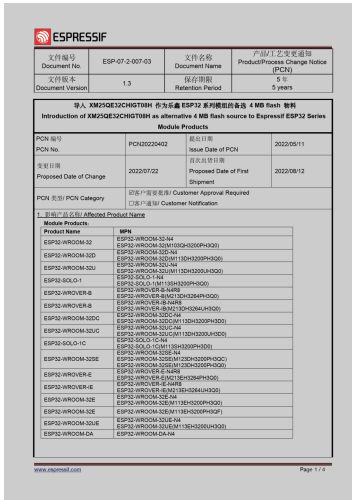
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ESPRESSIF PCN Pan Zhengyan ESP32 S3 WROOM 1 N8 Espressif Systems RF and Wireless DigiKey
PCN20230201 v2 mm digikey Volume0 opasdata d220001 medias docus 5383 |||

Document No. Document Version ESP-07-2-007-03 1.4 Document Name Retention
Period / Product/Pr ... al Required PCN / PCN Category / Customer Notification 1. /
Affected Product Name ESP32-WROOM-**32E-N4** 2022 12 ESP32-WROOM-32E-
N8ESP32-WROOM-32E-N16 2023 3 ESP32-S3-WROOM-1 2023 6 ESP...

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文件版本 Document Version	1.0	发布日期 Release Date	5月 5 days

※ 关于 XM2QSG213CHG10T01 与 5 类 ESPRIMO 2 系列规格书涉及 4 类 PCB 变更
Introduction of XM2QSG213CHG10T01 as alternative 4 类 PCB source to Express® ESPRIMO Series
Model Products

PCN 序号 PCN No.	ESP1-CD202402	发布日期 Issue Date of PCN	2022/05/11
生效日期 Proposed Date of Change	2022/07/22	首次发布日期 Proposed Date of First Shipment	2022/08/12
客户通知 PCN Category	变更不影响客户使用 / Customer Approval Required (3类 / 通知 / Informative)		

1. 变更内容 / Affected Product Name

Model Products	MPN
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ESPRIMO-ARM00-32	ESPRIMO-ARM00-32-05
ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-04
ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-05
ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-06
ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-07
ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-08
ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-09
ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-10
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ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-80
ESPRIMO-ARM00-32D	ESPRIMO-ARM00-32D-81

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 ESPRESSO		文件名称 Document Name		产品工艺及流程说明 Product/Process Change Notice	
文件编号 Document No.		ESP-012-1-03		文件名称 Document Name	
发布日期 Document Version		1.0.7		发布日期 Release Period	
		5 天 5 days			

产品变更通知单/产品型号及规格变更 Upgrade Manufacture Part Number and Label Marking of Express Module			
PCN 编号 PCN No.	PCN 2021-030	起止日期 Issue Date of PCN	2021/3/16
生效日期 Proposed Date of Change	2021/3/16	截止日期 Proposed Date of End	2022/01/25
客户是否要求通知 Customer Approval Required		是否客户通知 Required	
PCN 类型 PCN Category	客户通知 Customer Notification		
1. 受影响产品 Affected Product Name			
1.1 ESPRIMO-010			
2. 受影响系列 ESPRIMO Series Modules			
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ESPRESSIF PCN Pan Zhengyan Product Change Notification ESP32 DevKitC VIB Espressif Systems

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Document No. Document Version ESP-07-2-007-03 1.3 Document Name Retention
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IE-N4R8 ESP32-WROVER-IE M213EH3264UH3Q0 ESP32-WROOM-**32E-N4**
ESP32-WROOM-32E M113EH3200PH3Q0 ESP32-WROOM-32E ESP32-WROOM-
32E M113EH3200PH3QF ESP32-WR...

lang:en score:24 filesize: 616.71 K page_count: 4 document date: 2022-07-29

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ESP32-WROOM-32E M113EH3200PH3Q0 ESP32-WROOM-32E ESP32-WROOM-
32E M113EH3200PH3QF ESP32-WR...

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ESP32-WROVER-IE-N8R8 ESP32-WROVER-IE-N16R8 ESP32-WROOM-**32E-N4**

ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4

ESP32-WROOM-32E-H8 ESP32-WROOM-32UE...

lang:en score:24 filesize: 1.04 M page_count: 8 document date: 2022-02-19

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The image shows the front cover of the ESP32-WROOM-32U datasheet. The background is white. At the top, there is a large red rectangular block. Below it, the text "ESP32-WROOM-32U" is written in a large, bold, black sans-serif font. Underneath this, the text "uses same datasheet of" is in a smaller, black sans-serif font. Below that, "ESP32-WROOM-32U-ETK" is written in a large, bold, black sans-serif font. Further down, the word "Datasheet" is written in a large, bold, black sans-serif font. Below "Datasheet", there are four lines of smaller text: "2.4 GHz Wi-Fi + Bluetooth® + Bluetooth LE module", "Built around ESP32 series of Cores, Xtensa® dual-core 32-bit LX0 microprocessor", "4MB/16 MB flash available", and "28 GPIOs, rich set of peripherals". At the bottom of this text block, it says "On-board PCB antenna or external antenna connector". In the center of the page, there is a large, faint, red watermark that reads "ESP32-WROOM-32U" diagonally. At the bottom of the page, there is a horizontal line. Below this line, on the left, is a small image of the ESP32-WROOM-32U module. To its right is a small image of the ESP32-WROOM-32U module. To the right of these images is the Espressif Systems logo, which is a stylized circular emblem. To the right of the logo, the text "Version: 1.0", "Espressif Systems", and "Copyright © 2023" is written in a small, black sans-serif font. At the very bottom of the page, the text "ESP32-WROOM-32U" is written in a small, black sans-serif font, followed by "ESP32-WROOM-32U" and then "www.espressif.com" in a small, black sans-serif font.

ESP32-WROOM-32U

uses same datasheet of

ESP32-WROOM-32U-ETK

Datasheet

2.4 GHz Wi-Fi + Bluetooth® + Bluetooth LE module
Built around ESP32 series of Cores, Xtensa® dual-core 32-bit LX0 microprocessor
4MB/16 MB flash available
28 GPIOs, rich set of peripherals
On-board PCB antenna or external antenna connector

Version: 1.0
Espressif Systems
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ESP32-WROOM-32U

[\[pdf\]](#) Datasheet

ESPRESSIF PCN Pan Zhengyan Espressif Systems DISTRIBUTOR Page 5 ESP32 WROOM 32E

M113EH3200PS3Q0 WROVER M203QL2864PH3Q0 S2 SOLO U N4R2 esp wrover kit ve rxelectronics
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Period / Product/Pr ... 8 ESP32-WROVER-E M213EH3264PH3Q0 ESP32-WROVER-
IE-N4R8 ESP32-WROVER-IE M213EH3264UH3Q0 ESP32-WROOM-**32E-N4**
ESP32-WROOM-32E M113EH3200PH3Q0 ESP32-WROOM-32E ESP32-WROOM-
32E M113EH3200PH3QF ESP32-WR...

lang:en score:24 filesize: 620.71 K page count: 4 document date: 2022-06-03

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PCNs PCN20250602 Discontinuation of Default Flashing Espressif Common AT Firmware on ESP32 4
MB flash Series Modulesespressif cn sites default files pcn PCN20250602 Modules |||

ESP-07-2-007-03/V1.5 ESP32 4 MB flash AT Discontinuation of Default Flashing
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ESP32-WROOM-32U M113DH3200UH3Q0 ESP32U012 ESP32-WROOM-**32E-N4**
ESP32U012 ESP32-WROOM-32E-H4 ESP32U012 ESP32-WROOM-32E
M113EH3200PS3Q0 ESP32U012 ESP32-...

lang:en score:22 filesize: 898.95 K page count: 7 document date: 2025-07-07

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Manual 94275906 QUEBEC INC 2024001 2BGNQ 2BGNQ2024001

ESP32WROOM32E ESP32WROOM32UE ESP32-WROOM-32UE-TK uses same datasheet of ESP32WROOM32UE Datasheet 2.4 ... he two modules is as follows:

Table 1: ESP32WROOM32E Series Comparison1 Ordering Code ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

lang:en score:22 filesize: 585.46 K page count: 33 document date: 2024-08-08

ESPRESSO

文件名称 Document No.	ESP-07-01-03	文件名称 Document Name	产品/工艺开发流程 Product/Process Change Notice
文件版本 Document Version	1.0.3	发布日期 Release Date	5月 3 years

产品变更管理流程/产品与规格变更项目

Upgrade Manufacture Part Number and Later Making of Express Module

PCN 编号 PCN No.	PCN 2021-030	起止日期 Issue Date of PCN	2021/12/16
发布日期 Released Date	2022/01/11	预计发布日期 Proposed Date of First Shipment	2022/01/25
客户/代理商/经销商/客户批准/客户通知 Customer Approval / Customer Notification			

1. 受影响产品 Affected Product Name

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2. 受影响系列 Affected Product Series

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ESPRESSIF PCN Pan Zhengyan Espressif Systems 0D,ÑÑÑD,Đ± ÑÑĐ¾Ñ ESP32 C3 WROOM 02U N4

ESP8285N08 S2 M22S2H3200PH3Q0 esp32 wroom 32d n16 rxelectronics ua datasheet 5c |||

Document No. Document Version ESP-07-2-007-03 1.3 Document Name Retention

Period / Product/Pr ... R8 ESP32-WROVER-E-N16R8 ESP32-WROVER-IE-N4R8

ESP32-WROVER-IE-N8R8 ESP32-WROVER-IE-N16R8 ESP32-WROOM-**32E-N4**

ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4

ESP32-WROOM-32E-H8 ESP32-WROOM-32UE...

lang:en score:22 filesize: 1.04 M page count: 8 document date: 2022-02-19

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Notification 1	Affected Product Name ESP8089M16 030 Upgrade Manufacturer Part Number and
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Document No. Document Version ESP-07-2-007-03 1.3 Document Name Retention

Period / Product/Pr ... R8 ESP32-WROVER-E-N16R8 ESP32-WROVER-IE-N4R8

ESP32-WROVER-IE-N8R8 ESP32-WROVER-IE-N16R8 ESP32-WROOM-32E-N4

ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4

ESP32-WROOM-32E-H8 ESP32-WROOM-32UE...

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ESPRESSIF PCN Pan Zhengyan PCN20220901 Upgrade Chip Revision of ESP32 Series Products

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Document No. Document Version ESP-07-2-007-03 1.4 Document Name Retention

Period / Product/Pr ... SP32-WROVER-IE-N16R8, ESP32-WROVER-IE

M213EH2864UH3Q0 ESP32-WROOM-32E M113EH3200PH3QF ESP32-

WROOM-32E-N4, ESP32-WROOM-32E M113EH3200PH3Q0 ESP32-WROOM-32E-

N8, ESP32-WROOM-32E M113EH6400PH3Q0 ESP32-...

lang:fr score:22 filesize: 1.11 M page count: 9 document date: 2022-10-13

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

ESP32 产品生命周期开发时间表			
Upgrade/Ctrl Revision of ESP32 Series Products			
Product No.	PCB Model	Release Date of PCB	2020/10/25
PCB No.	PCB002201020	2020/10/25	
发布日期	2020/10/25	2020年10月25日	2020/10/25
Prepared Date of Change	2020/10/25	2020年10月25日	2020/10/25
Revision / PCB Change		客户/供应商变更 Customer Approval Required 工程师/物料变更 Engineer Approval Required	
Revision / PCB Change			
1. 更改产品/物料名称/物料号 1. Change Product Name/Part Number 2. 更改产品/物料名称/物料号，不可变产品，由产品物料清单管理。 2. Change Product Name/Part Number,不可变产品，由产品物料清单管理。			
2. 更改 ESP32 产品/物料名称/物料号，不可变产品，由产品物料清单管理。 2. Change ESP32 Product Name/Part Number,不可变产品，由产品物料清单管理。			
3. 更改 ESP32 产品/物料名称/物料号，不可变产品，由产品物料清单管理。 3. Change ESP32 Product Name/Part Number,不可变产品，由产品物料清单管理。			
Note: For description of chip revision, see Chip Revision Policy for Chip Revision Numbering Scheme			
2. 更改产品/物料名称/物料号			
2. Change Product Name/Part Number 1. 更改 ESP32 产品/物料名称/物料号，不可变产品，由产品物料清单管理。 1. Change ESP32 Product Name/Part Number,不可变产品，由产品物料清单管理。			
To maintain the product application range and ensure stable operation under more complicated and harsh environment circumstances, the chip revision policy of the ESP32 series products is changed. The serial number of the crystal on the ESP32 series products (v1.0 ~ v1.05) is modified and also be changed.			
2. 更改产品/物料名称/物料号			
2. Change Product Name/Part Number 1. 更改 ESP32 产品/物料名称/物料号，不可变产品，由产品物料清单管理。 1. Change ESP32 Product Name/Part Number,不可变产品，由产品物料清单管理。			
To maintain the product application range and ensure stable operation under more complicated and harsh environment circumstances, the chip revision policy of the ESP32 series products is changed. The serial number of the crystal on the ESP32 series products (v1.0 ~ v1.05) is modified and also be changed.			
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2. Change Product Name/Part Number 1. 更改 ESP32 产品/物料名称/物料号，不可变产品，由产品物料清单管理。 1. Change ESP32 Product Name/Part Number,不可变产品，由产品物料清单管理。			
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ESP32-WROOM-32E
ESP32-WROOM-32UE
Datasheet Version 1.7

2.4 GHz Wi-Fi + Bluetooth® + Bluetooth LE module
Built around ESP32 series of SoCs, Xtensa® dual-core 32-bit LX6 microprocessor
4/8/16 MB flash available
26 GPIOs, rich set of peripherals
On-board PCB antenna or external antenna connector



E1P32-WROOM-32F



ESP32-WROOM-32U



ESP32-WROOM-32E
ESP32-WROOM-32UE
Datasheet

2.4 GHz Wi-Fi + Bluetooth® + Bluetooth LE module
Built around ESP32 series of SoCs, Xtensa® dual-core 32-bit LX6 microprocessor
4/8/16 MB flash available
26 GPIOs, rich set of peripherals
On-board PCB antenna or external antenna connector

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ESPRESSIF PCN Pan Zhengyan Product Change Notification ESP32 C3 DevKitC 02 Espressif Systems
Mouser PCN20220901 Upgrade Chip Revision of Series Products mouser |||

Document No. Document Version ESP-07-2-007-03 1.4 Document Name Retention
Period / Product/Pr ... ESP32-PICO-V3-ZERO P103AH0000PH3Q1 ESP32-WROOM-
32E ESP32-WROOM-32E M113EH3200PH3QF ESP32-WROOM-**32E-N4**, ESP32-
WROOM-32E M113EH3200PH3Q0 ESP32-WROOM-32E-N8, ESP32-WROOM-32E
M113EH6400PH3Q0 ESP32-...

lang:en score:21 filesize: 720.26 K page count: 9 document date: 2022-11-07

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ESP32 WROOM 32E 32UE Datasheet DevKitC V4 Development Board Espressif Systems Mouser esp32 wroom 32e 32ue datasheet en 1855879 mouser ec 2 891 |||

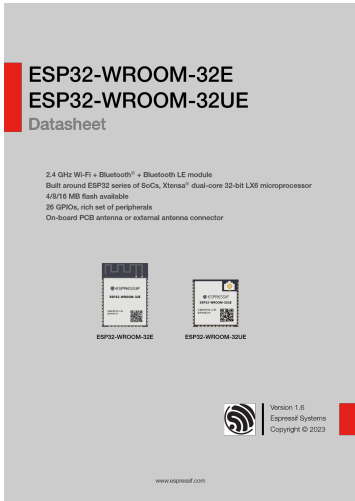
ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.7 2.4 GHz Wi-Fi
Bluetooth Bluetooth LE modu ... as follows: Table 1: ESP32-WROOM-32E Series
Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-
WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-
WROOM-32E-H8 ESP32-WROOM-32E-...

lang:en score:19 filesize: 1.28 M page count: 49 document date: 2024-12-20

Espressif ESP32-WROOM-32E/32UE Datasheet: Wi-Fi & Bluetooth LE Module

Comprehensive datasheet for the Espressif ESP32-WROOM-32E and ESP32-WROOM-32UE modules, detailing features, specifications, pin configurations, electrical characteristics, RF performance, physical dimensions, and handling guidelines for IoT applications.

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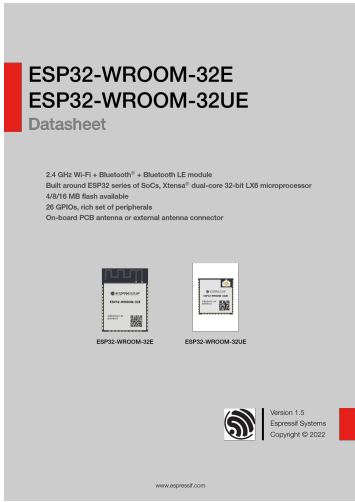


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ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth
Bluetooth LE module Built around E ... he two modules is as follows: Table 1:
ESP32WROOM32E Series Comparison1 Ordering Code ESP32-WROOM-**32E-N4**
ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4
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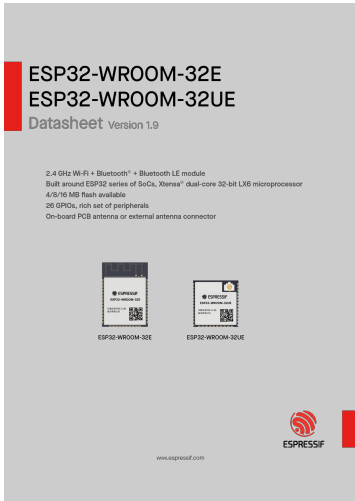


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ESP32WROOM32E ESP32WROOM32UE filafill 1 ModuleOverview Module Overview Note
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ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth
Bluetooth LE module Built around E ... he two modules is as follows: Table 1:
ESP32WROOM32E Series Comparison1 Ordering Code ESP32-WROOM-**32E-N4**
ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4
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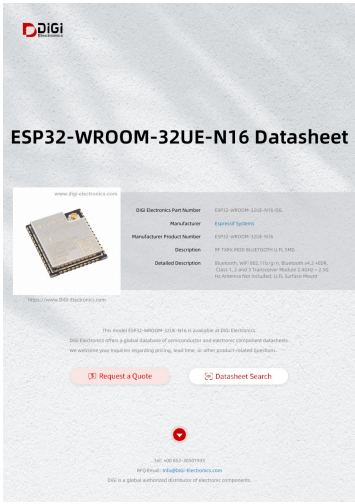
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ESP32 WROOM 32E 32UE Espressif Systems2 days ago · Pin Assignment The pins for the Remote
Control Peripheral can be chosen from any GPIOs via GPIO Matrix For more information about pin
assignment see Series Datasheet Section Configurations and Technical Reference Manual Chapter IO
MUX Matrix2 ESP32esp32 wroom 32e esp32 32ue datasheet enesp32 enespressif sites default files
documentation en pubDate 20250908espressif 20250908 SystemsESP32 Datasheet2

ESP32Batterimonitor baserad på INA260 INA226 sensor och 1b ||| ||| ESP32-WROOM-32E ESP32-
WROOM-32UE Datasheet Version 1.9 2.4 GHz Wi-Fi Bluetooth Bluetooth LE module Built around ESP32
series of SoCs, Xtensa dual-core 32-bit LX6 microprocessor 4/8/16 MB flash available 26 GPIOs, rich set
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ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.9 2.4 GHz Wi-Fi
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Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-
WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-
WROOM-32E-H8 ESP32-WROOM-32E-...

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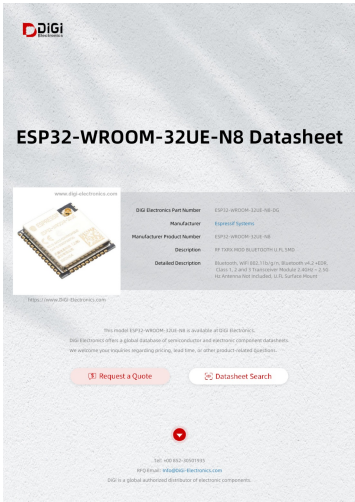
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ESP32WROOM32UEN16 digi electronics 892 |||

ESP32-WROOM-32UE-N16 Datasheet <https://www.DiGi-Electronics.com> DiGi Electronics Part Number Manuf ... as follows: Table 1: ESP32-WROOM-32E Series Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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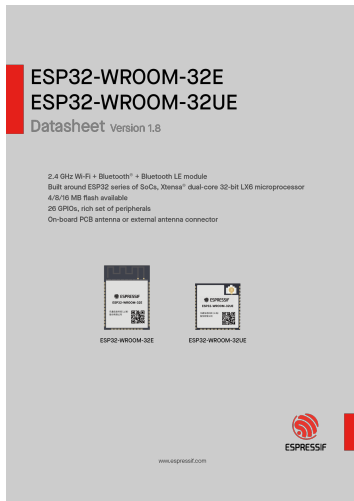
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ESP32-WROOM-32UE-N8 Datasheet <https://www.DiGi-Electronics.com> DiGi Electronics Part Number Manufa ... as follows: Table 1: ESP32-WROOM-32E Series Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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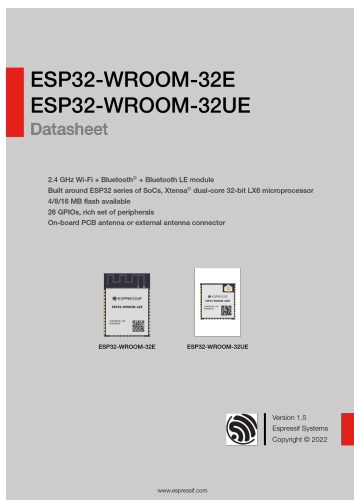
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DAB Esysbox Mini 3 Third party integrations Home Assistant Community esp32 wroom 32e 32ue

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ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.8 2.4 GHz Wi-Fi Bluetooth Bluetooth LE modu ... as follows: Table 1: ESP32-WROOM-32E Series Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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ESP32WROOM32E ESP32WROOM32UE esp32 wroom 32e 32ue datasheet en 1855879 mouser fr 2 891 |||

ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth Bluetooth LE module Built around E ... he two modules is as follows: Table 1: ESP32WROOM32E Series Comparison1 Ordering Code ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth Bluetooth LE module Built around ESP32 series of SoCs, Xtensa dualcore 32bit LX6 microprocessor 4/8/16 MB flash available 26 GPIOs, rich set of peripherals Onboard PCB antenna or ||| ESP32WROOM32E ESP32WROOM32UE

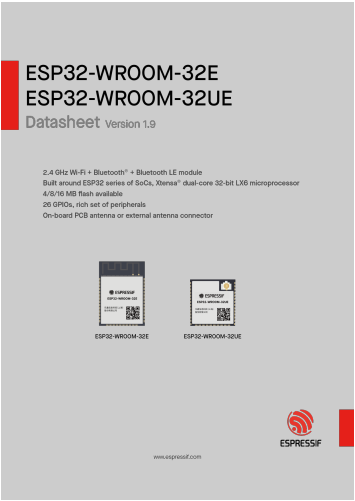
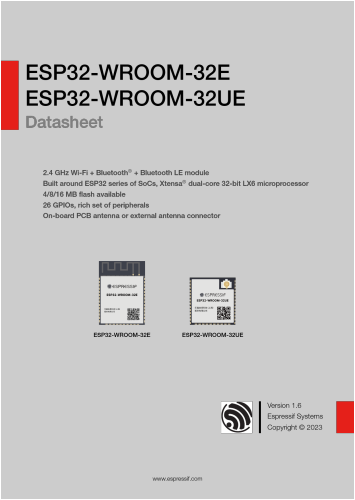
Datasheet 2.4 GHz WiFi Bluetooth Bluetooth LE module Built around ESP32 series of SoCs, Xtensa dualcore 32bit LX6 microprocessor 4/8/16 MB flash available 26 GPIOs, rich set of peripherals Onboard PCB antenna or ||| ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth

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ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth Bluetooth LE module Built around E ... he two modules is as follows: Table 1:

ESP32WROOM32E Series Comparison1 Ordering Code ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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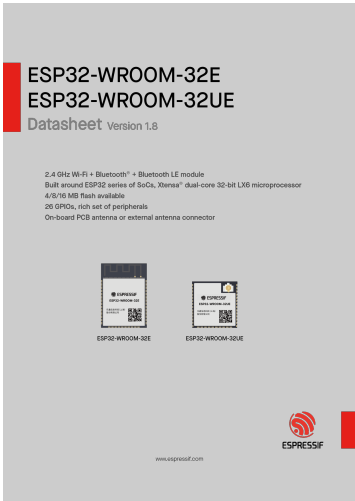
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ESP32 WROOM 32E 32UE Mouser ElectronicsThe UE modules have 2 4 GHz Wi Fi Bluetooth a dual core 32 bit processor 8 16MB flash 26 GPIOs and are for IoT v1mouser datasheet 891 esp32 wroom 32e 32ue en 1855879 srsltid AfmBOooqNSKvWoQsiWIVQ1dP lyGbwM4HtqhASzOIMwtK9GuRUFhXBOr |||

ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.9 2.4 GHz Wi-Fi Bluetooth Bluetooth LE modu ... as follows: Table 1: ESP32-WROOM-32E Series

Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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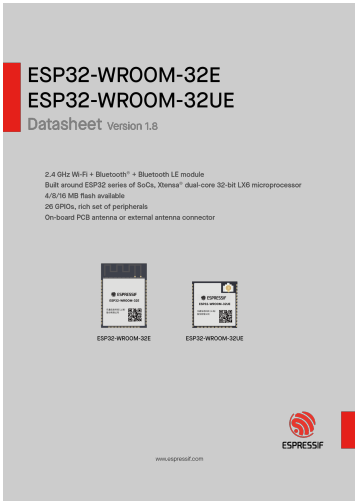
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ESP32 WROOM 32E 32UE esp32 wroom 32e 32ue datasheet en 1855879 srsltid

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ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.8 2.4 GHz Wi-Fi Bluetooth Bluetooth LE modu ... as follows: Table 1: ESP32-WROOM-32E Series Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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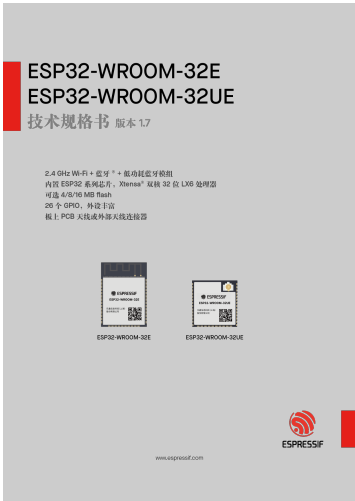


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ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.8 2.4 GHz Wi-Fi Bluetooth Bluetooth LE modu ... as follows: Table 1: ESP32-WROOM-32E Series Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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ESP32-WROOM-32E ESP32-WROOM-32UE 1.7 2.4 GHz Wi-Fi ESP32 Xtensa 32 LX6 4/8/16 MB flash ... ab ESP32-WROOM-32E PCB ESP32-WROOM-32UE b b 1: ESP32-WROOM-32E 1 Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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Period / Product/Pr ... R8 ESP32-WROVER-E-N16R8 ESP32-WROVER-IE-N4R8
ESP32-WROVER-IE-N8R8 ESP32-WROVER-IE-N16R8 ESP32-WROOM-**32E-N4**
ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4
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lang:en score:13 filesize: 1.42 M page_count: 35 document date: 2022-09-09

ESP32-WROOM-32E

ESP32-WROOM-32UE

Datasheet

2.4 GHz Wi-Fi + Bluetooth® + Bluetooth LE module

Built around ESP32 series of SoCs, Xtensa® dual-core 32-bit LX6 microprocessor

419/175 MB flash available

26 GPIOs, rich set of peripherals

On-board PCB antenna or external antenna connector



ESP32-WROOM-32E



ESP32-WROOM-32UE



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ESP32 Datasheet Mini scheda di sviluppo WIFI bluetooth ESP WROOM 32 esp32 wroom 32e 32ue

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ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth
Bluetooth LE module Built around E ... he two modules is as follows: Table 1:

ESP32WROOM32E Series Comparison¹ Ordering Code ESP32-WROOM-**32E-N4**

ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4

ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

lang:en score:13 filesize: 1018.86 K page_count: 33 document date: 2023-01-18

ESP32-WROOM-32E

ESP32-WROOM-32UE

Datasheet

2.4 GHz Wi-Fi + Bluetooth® + Bluetooth LE module

Built around ESP32 series of SoCs, Xtensa® dual-core 32-bit LX6 microprocessor

419/18 MB flash available

26 GPIOs, rich set of peripherals

On-board PCB antenna or external antenna connector



ESP32-WROOM-32E



ESP32-WROOM-32UE



Version: 1.6

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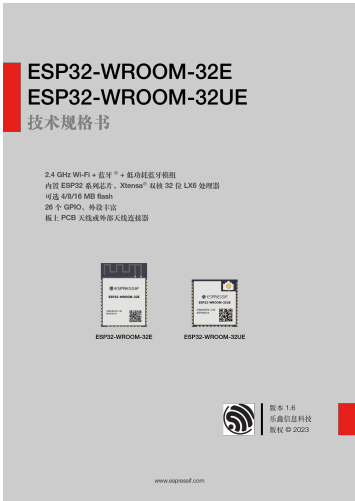
ESP32WROOM32E ESP32WROOM32UE Datasheet 2.4 GHz WiFi Bluetooth
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ESP32WROOM32E Series Comparison¹ Ordering Code ESP32-WROOM-**32E-N4**

ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4

ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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ESP32WROOM32UE 2.4 GHz WiFi ESP32 Xtensa 32 LX6 4/8/16 MB flash 26 GPIO PCB

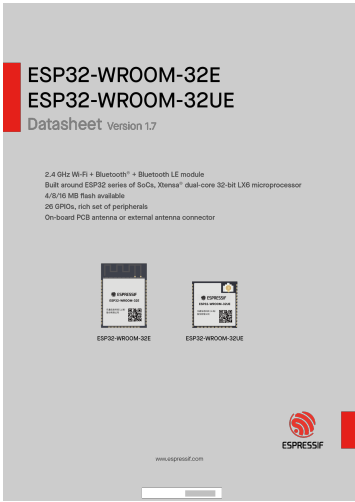
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ESP32WROOM32E ESP32WROOM32UE 2.4 GHz WiFi ESP32 Xtensa 32 LX6 4/8/16 MB flash 26 GPIO ... MP3 b ESP32-WROOM-32E PCB ESP32-WROOM-32UE

b b 1: ESP32WROOM32E 1 Flash PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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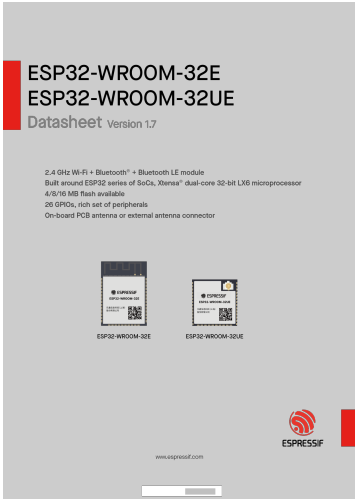
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ESP32 WROOM 32E 32UE The LED PWM Controller LEDC is designed to generate signals for 33 dB F

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ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.7 2.4 GHz Wi-Fi Bluetooth Bluetooth LE modu ... as follows: Table 1: ESP32-WROOM-32E Series Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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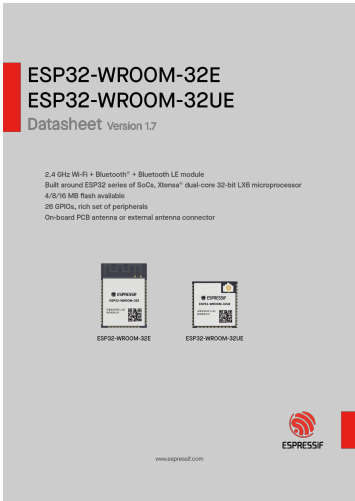
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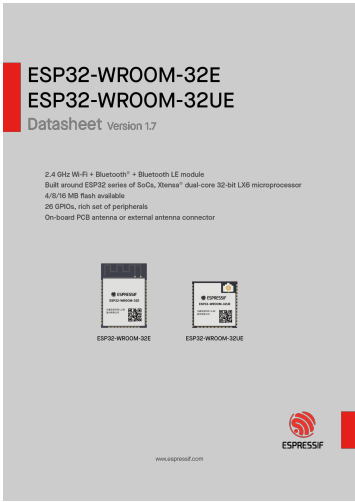


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ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.7 2.4 GHz Wi-Fi Bluetooth Bluetooth LE modu ... as follows: Table 1: ESP32-WROOM-32E Series Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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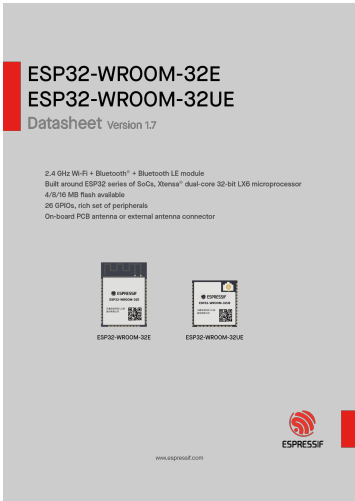


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ESP32 WROOM 32E 32UE botnrollESP32 and are two powerful generic Wi Fi MCU modules that have a rich set of peripherals They an ideal choice for wide esp32 wroom 32e esp32 32ue datasheet enbotnroll cms en |||

ESP32-WROOM-32E ESP32-WROOM-32UE Datasheet Version 1.7 2.4 GHz Wi-Fi Bluetooth Bluetooth LE modu ... as follows: Table 1: ESP32-WROOM-32E Series Comparison1 Ordering Code Flash2 PSRAM ESP32-WROOM-**32E-N4** ESP32-WROOM-32E-N8 ESP32-WROOM-32E-N16 ESP32-WROOM-32E-H4 ESP32-WROOM-32E-H8 ESP32-WROOM-32E-...

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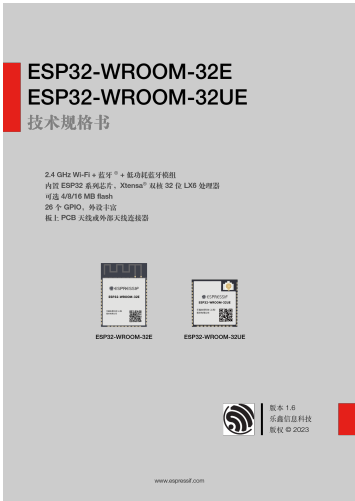
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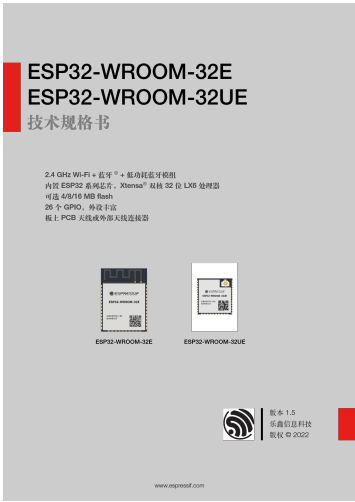
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ESP32WROOM32E ESP32WROOM32UE 2.4 GHz WiFi ESP32 Xtensa 32 LX6
4/8/16 MB flash 26 GPIO ... MP3 b ESP32-WROOM-32E PCB ESP32-WROOM-32UE
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ESP32WROOM32E ESP32WROOM32UE 2.4 GHz WiFi ESP32 Xtensa 32 LX6
4/8/16 MB flash 26 GPIO ... MP3 b ESP32-WROOM-32E PCB ESP32-WROOM-32UE
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