Espressif

Product Ordering Information

Version 3.1
Espressif Systems

About This Guide

This guide provides the ordering information of Espressif products.

Release Notes

For any changes to this document over time, please refer to the last page.

Documentation Change Notification

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1. Notes to This Guide

- MP denotes mass production.
- SPQ: Standard Pack Quantity; MOQ: Minimum Order Quantity.
- For high temperature range option, please contact our *salesperson*.
- Unless otherwise specified, all the modules have the same dimensional tolerance: ±0.10 mm for length, width and thickness.
- Release notes for this document are listed on the last page.
- Label ***New** indicates that this is an new product, label ***Recommend** indicates that this product is recommended by Espressif, and label ***Default** indicates the default specification of a product.

2. ESP32 Series

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32 Series of SoCs												
ESP32 *Datasheet*	ESP32-D0WD-V3 **(*New) (*Recommend)**	-	SMD IC ESP32-D0WD-V3, dual-core MCU, Wi-Fi & Bluetooth combo, QFN 48-pin, 5*5 mm.	-	-	-	–40 °C ~ +125 °C	5×5	5,000 & 1,000	1,000	MP	-
	ESP32-D0WDQ6-V3 **(*New) (*Recommend)**	-	SMD IC ESP32-D0WDQ6-V3, dual-core MCU, Wi-Fi & Bluetooth combo, QFN 48-pin, 6*6 mm	-	-	-	–40 °C ~ +125 °C	6×6	3,000 & 1,000	1,000	MP	-
	ESP32-D0WD	-	SMD IC ESP32-D0WD, dual-core MCU, Wi-Fi & Bluetooth combo, QFN 48-pin, 5*5 mm	-	-	-	–40 °C ~ +125 °C	5×5	5,000 & 1,000	1,000	MP	-
	ESP32-D0WDQ6	-	SMD IC ESP32-D0WDQ6, dual-core MCU, Wi-Fi & Bluetooth combo, QFN 48-pin, 6*6 mm	-	-	-	–40 °C ~ +125 °C	6×6	3,000 & 1,000	1,000	MP	-

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
	ESP32-D2WD	-	SMD IC ESP32-D2WD, dual-core MCU, Wi-Fi & Bluetooth combo, 2 MB flash inside, QFN 48-pin, 5*5 mm	2 MB	-	-	–40 °C ~ +105 °C	5×5	5,000 & 1,000	1,000	MP	-
	ESP32-S0WD	-	SMD IC ESP32-S0WD, single-core MCU, Wi-Fi & Bluetooth combo, QFN 48-pin, 5*5 mm	-	-	-	–40 °C ~ +125 °C	5×5	5,000 & 1,000	1,000	MP	-
ESP32 Series of Modules												
ESP32-WROOM-32D *Datasheet* **(*Recommend)**	ESP32-WROOM-32D **(*Default)**	ESP32-WROOM-32D(M113DH3200PH3Q0)	SMD module, ESP32-D0WD, 4 MB SPI flash, PCB antenna	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	18.00×25.50×3.10	650	650	MP	ESP32-D0WD *Datasheet* ESP32-DevKitC-32D *Getting Started Guide*
	ESP32-WROOM-32D (8 MB)	ESP32-WROOM-32D(M113DH6400PH3Q0)	SMD module, ESP32-D0WD, 8 MB SPI flash, PCB antenna	8 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	18.00×25.50×3.10	650	650	MP	
	ESP32-WROOM-32D (16 MB)	ESP32-WROOM-32D(M113DH2800PH3Q0)	SMD module, ESP32-D0WD, 16 MB SPI flash, PCB antenna	16 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	18.00×25.50×3.10	650	650	MP	

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
	ESP32-WROOM-32D (High Temp. 105°C)	ESP32-WROOM-32D(M113DH3200PS3Q0)	SMD module, ESP32-D0WD, 4 MB SPI flash, PCB antenna, –40 °C ~ +105 °C	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +105 °C	18.00×25.50×3.10	650	650	MP	ESP32-D0WD *Datasheet*
ESP32-WROOM-32U *Datasheet* **(*Recommend)** (Continued on the next page…)	ESP32-WROOM-32U **(*Default)**	ESP32-WROOM-32U(M113DH3200UH3Q0)	SMD module, ESP32-D0WD, 4 MB SPI flash, IPEX antenna connector	4 MB	-	External IPEX antenna	–40 °C ~ +85 °C	18.00×19.20×3.20	650	650	MP	ESP32-D0WD *Datasheet* ESP32-DevKitC-32U *Getting Started Guide*
	ESP32-WROOM-32U (8 MB)	ESP32-WROOM-32U(M113DH6400UH3Q0)	SMD module, ESP32-D0WD, 8 MB SPI flash, IPEX antenna connector	8 MB	-	External IPEX antenna	–40 °C ~ +85 °C	18.00×19.20×3.20	650	650	MP	
	ESP32-WROOM-32U (16 MB)	ESP32-WROOM-32U(M113DH2800UH3Q0)	SMD module, ESP32-D0WD, 16 MB SPI flash, IPEX antenna connector	16 MB	-	External IPEX antenna	–40 °C ~ +85 °C	18.00×19.20×3.20	650	650	MP	
ESP32-WROOM-32U *Datasheet* **(*Recommend)**	ESP32-WROOM-32U (High Temp. 105°C)	ESP32-WROOM-32U(M113DH3200US3Q0)	SMD module, ESP32-D0WD, 4 MB SPI flash, IPEX antenna connector, –40 °C ~ +105 °C	4 MB	-	External IPEX antenna	–40 °C ~ +105 °C	18.00×19.20×3.20	650	650	MP	ESP32-D0WD *Datasheet*
ESP32-WROOM-32 *Datasheet*	-	-	SMD module, ESP32-D0WDQ6, 4 MB SPI flash, PCB antenna	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	18.00×25.50×3.10	550	550	MP	ESP32-D0WDQ6 *Datasheet*
ESP32-SOLO-1	ESP32-SOLO-1 **(*Default)**	ESP32-SOLO-1(M113SH3200PH3Q0)	SMD module, ESP32-S0WD, single core, 4 MB SPI flash, PCB antenna	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	18.00×25.50×3.10	650	650	MP	ESP32-S0WD *Datasheet*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-SOLO-1 *Datasheet*	ESP32-SOLO-1 (High Temp. 105°C) **(*New)**	ESP32-SOLO-1(M113SH3200PS3Q0)	SMD module, ESP32-S0WD, single core, 4 MB SPI flash, PCB antenna , –40 °C ~ +105 °C	4 MB		Internal PCB on-board antenna	–40 °C ~ +105 °C	18.00×25.50×3.10	650	650	MP	ESP32-DevKitC-S1 *Getting Started Guide*
ESP32-WROVER-B *Datasheet* **(*Recommend)** (Continued on the next page…)	ESP32-WROVER-B **(*Default)**	ESP32-WROVER-B(M213DH3264PC3Q0)	SMD module, ESP32-D0WD, 3.3 V, 8 MB PSRAM, 4 MB SPI flash, PCB antenna	4 MB	8 MB	Internal PCB on-board antenna	–40 °C ~ +65 °C	18.00×31.40×3.30	650	650	MP	ESP32-D0WD *Datasheet* ESP32-DevKitC-VB *Getting Started Guide*
	ESP32-WROVER-B (8 MB flash)	ESP32-WROVER-B(M213DH6464PC3Q0)	SMD module, ESP32-D0WD, 3.3 V, 8 MB PSRAM, 8 MB SPI flash, PCB antenna	8 MB	8 MB	Internal PCB on-board antenna	–40 °C ~ +65 °C	18.00×31.40×3.30	650	650	MP	
	ESP32-WROVER-B (16 MB flash)	ESP32-WROVER-B(M213DH2864PC3Q0)	SMD module, ESP32-D0WD, 3.3 V, 8 MB PSRAM, 16 MB SPI flash, PCB antenna	16 MB	8 MB	Internal PCB on-board antenna	–40 °C ~ +65 °C	18.00×31.40×3.30	650	650	MP	ESP-WROVER-KIT-VB *Getting Started Guide*
ESP32-WROVER-B *Datasheet* **(*Recommend)**	ESP32-WROVER-IB (4 MB flash)	ESP32-WROVER-IB(M213DH3264UC3Q0)	SMD module, ESP32-D0WD, 3.3 V, 8 MB PSRAM, 4 MB SPI flash, IPEX antenna connector	4 MB	8 MB	External IPEX antenna	–40 °C ~ +65 °C	18.00×31.40×3.30	650	650	MP	
	ESP32-WROVER-IB (8 MB flash)	ESP32-WROVER-IB(M213DH6464UC3Q0)	SMD module, ESP32-D0WD, 3.3 V, 8 MB PSRAM, 8 MB SPI flash, IPEX antenna connector	8 MB	8 MB	External IPEX antenna	–40 °C ~ +65 °C	18.00×31.40×3.30	650	650	MP	ESP32-D0WD *Datasheet* ESP32-DevKitC-VIB *Getting Started*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
	ESP32-WROVER-IB (16 MB flash)	ESP32-WROVER-IB(M213DH2864UC3Q0)	SMD module, ESP32-D0WD, 3.3 V, 8 MB PSRAM, 16 MB SPI flash, IPEX antenna connector	16 MB	8 MB	External IPEX antenna	–40 °C ~ +65 °C	18.00×31.40×3.30	650	650	MP	*Guide*
ESP32-WROVER *Datasheet*	ESP32-WROVER (PCB)	-	SMD module, ESP32-D0WDQ6, 1.8 V, 8 MB PSRAM, 4 MB SPI flash, PCB antenna	4 MB	8 MB	Internal PCB on-board antenna	–40 °C ~ +85 °C	18.00×31.40×3.30	650	650	MP	ESP32-D0WDQ6 *Datasheet*
	ESP32-WROVER (IPEX)	-	SMD module, ESP32-D0WDQ6, 1.8 V, 8 MB PSRAM, 4 MB SPI flash, IPEX antenna connector	4 MB	8 MB	External IPEX antenna	–40 °C ~ +85 °C	18.00×31.40×3.30	650	650	MP	ESP32-D0WDQ6 *Datasheet*
ESP32-PICO-D4 *Datasheet*	-	-	SiP module with 4 MB flash, dual-core MCU, Wi-Fi & Bluetooth combo, LGA 48-pin, 7*7 mm	4 MB	-	-	–40 °C ~ +85 °C	7×7	2,000 & 1,000	1,000	MP	ESP32-PICO-KIT *Getting Started Guide*
ESP32 Series of Development Boards												

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-DevKitC *Getting Started Guide* (Continued on the next page…)	ESP32-DevKitC-32D	ESP32-DevKitC-32D	ESP32 general-purpose development board, embeds ESP32-WROOM-32D, 4 MB flash, with pin header	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	54.4×27.9	1	-	MP	ESP32-WROOM-32D *Datasheet*
	ESP32-DevKitC-32U	ESP32-DevKitC-32U	ESP32 general-purpose development board, embeds ESP32-WROOM-32U, 4 MB flash, with pin header	4 MB	-	External IPEX antenna	–40 °C ~ +85 °C	54.4×27.9	1	-	MP	ESP32-WROOM-32U *Datasheet*
	ESP32-DevKitC-S1	ESP32-DevKitC-S1	ESP32 general-purpose development board, embeds ESP32-SOLO-1, 4 MB flash, with pin header	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	54.4×27.9	1	-	MP	ESP32-SOLO-1 *Datasheet*
ESP32-DevKitC *Getting Started Guide*	ESP32-DevKitC-VB	ESP32-DevKitC-VB	ESP32 general-purpose development board, embeds ESP32-WROVER-B, 4 MB flash, 8 MB PSRAM, with pin header	4 MB	8 MB	Internal PCB on-board antenna	–40 °C ~ +65 °C	54.4×27.9	1	-	MP	ESP32-WROVER-B *Datasheet*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
	ESP32-DevKitC-VIB	ESP32-DevKitC-VIB	ESP32 general-purpose development board, embeds ESP32-WROVER-B (IPEX), 4 MB flash, 8 MB PSRAM, with pin header	4 MB	8 MB	External IPEX antenna	–40 °C ~ +65 °C	54.4×27.9	1	-	MP	ESP32-WROVER-B (IPEX) *Datasheet*
ESP-WROVER-KIT *Getting Started Guide*	ESP-WROVER-KIT-VB	ESP-WROVER-KIT-VB	ESP32 development board, JTAG function, TFT display and camera supported, ESP32-WROVER-B on the board	4 MB	8 MB	Internal PCB on-board antenna	–40 °C ~ +65 °C	85.1×84.3	1	-	MP	ESP32-WROVER-B *Datasheet*
ESP32-PICO-KIT *Getting Started Guide*	-	ESP32-PICO-KIT	ESP32-PICO-D4 development board	4 MB	-	Internal 3D antenna	–40 °C ~ +85 °C	52.0×20.3	1	-	MP	ESP32-PICO-D4 *Datasheet*
ESP32-LyraT *User Guide*	-	ESP32-LyraT	ESP32 audio development board, integrates ESP32-WROVER/ESP32-WROVER-B, peripherals like touch buttons, mic, speaker supported	4 MB	8 MB	Internal PCB on-board antenna	–40 °C ~ +65 °C	95.5×80.6	1	-	MP	ESP32-WROVER *Datasheet* ESP32-WROVER-B *Datasheet*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-LyraTD-DSPG *User Guide* **(*New) (*Recommend)**	-	ESP32-LyraTD-DSPG	An Espressif Audio Development Board, based on ESP32-WROVER-B, a BT/WIFI combo module, and DBMP5P DSP that features a three-microphone array for noise reduction, echo cancellation, beamforming and wake-word detection.	16 MB	8 MB	Internal PCB on-board antenna	–20 °C ~ +65 °C	Main board: 85 mm X 65 mm Sun board: diameter 90 mm	1	-	MP	ESP32-WROVER-B *Datasheet*
ESP32-LyraTD-SYNA *User Guide*	-	ESP32-LyraTD-SYNA	ESP32-LyraTD-SYNA is one of Espressif's Audio Development Board based on ESP32 MCU and Synaptics DSP. It is an Acoustic Echo Cancelation (AEC) solution, supporting voice recognition and voice wake-up. It also supports connection to Amazon's AVS (Alexa Voice Service), Google's Dialogflow and Google's GVA (Google Voice Assistant).	16 MB	8 MB	Internal PCB on-board antenna	–20 °C ~ +65 °C	91×69	1	-	MP	ESP32-WROVER-B *Datasheet*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-LyraTD-MSC *User Guide*	-	ESP32-LyraTD-MSC	ESP32 audio development board, integrates ESP32-WROVER-B and DSP, noise reduction, echo cancellation, voice recognition, near-field and far-field voice wake-up supported	4 MB	8 MB	Internal PCB on-board antenna	–40 °C ~ +65 °C	90×90	1	-	MP	ESP32-WROVER-B *Datasheet*
ESP32-LyraT-Mini *Getting Started*	-	ESP32-LyraT-Mini	ESP32-LyraT-Mini is a lightweight audio development board based on ESP32-WROVER-B, which implements AEC, AGC, NS WWE (wake word engine) and other audio signal processing technologies.	8 MB	8 MB	Internal PCB on-board antenna	–20 °C ~ +65 °C	77x72	1	-	MP	ESP32-WROVER-B *Datasheet*
ESP-Prog *Getting Started*	-	ESP-Prog	Development and debugging tool with functions including automatic firmware downloading, serial communication, and JTAG online debugging	-	-	-	–20 °C ~ +65 °C	73.4×25.1	1	-	MP	ESP32-Sense Kit *User Guide* ESP32-MeshKit-Sense *Hardware Design Guidelines*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-MeshKit-Sense *Hardware Design Guidelines*	-	ESP32-MeshKit-Sense	A development board that embeds ESP32-WROOM-32D, peripherals such as temperature and humidity sensor, ambient light sensor, LCD screen connector, Micro USB port and ESP-Prog connector	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +65 °C	75.0×41.0	1	-	MP	ESP32-WROOM-32D *Datasheet* ESP-Prog *Getting Started* ESP32-MeshKit-Light *User Guide*
ESP32-MeshKit-Light *User Guide*	-	ESP32-MeshKit-Light	Smart lights based on ESP-Mesh networking technology	4 MB	-	-	–20 °C ~ +40 °C	60×60×118	1	-	MP	ESP32-MeshKit-Sense *Hardware Design Guidelines*
ESP-EYE *Getting Started* **(*Recommend)**	-	ESP-EYE	A development board for image recognition and audio processing in AIoT applications	4 MB	8 MB	3D Antenna	0°C - 50°C	41.00 x 21.00 x 6.50	1	10	MP	ESP32-D0WD *Datasheet*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-LCDKit *Hardware Design Guidelines* **(*New)**	-	ESP32-LCDKit	An HMI development board based on ESP32-DevKitC (need to purchase if you didn't have one), integrated with such peripherals as SD-Card, DAC-Audio, can be connected to an external display.	-	-	-	–40 °C ~ +85 °C	73.4×25.1	1	-	MP	ESP32-DevKitC *Getting Started Guide*
ESP32 Series of Development Kits												
ESP32-Sense Kit *User Guide* **(*New)**	-	ESP32-Sense Kit	Touch sensor development kit, with ESP-Prog by default	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	-	1	-	MP	ESP32-WROOM-32 *Datasheet* ESP32-WROOM-32D *Datasheet* ESP-Prog *Getting Started*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-MeshKit	-	-	Smart-light development kit, containing 1×ESP32-MeshKit-Sense, 5×ESP32-MeshKit-Light, 1×ESP-Prog	-	-	-	-	-	1	-	MP	ESP32-MeshKit-Sense *Hardware Design Guidelines* ESP32-MeshKit-Light *User Guide* ESP-Prog *Getting Started*

3. ESP8266 Series

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP8266 Series of SoCs												
ESP8266EX *Datasheet*	-	-	SMD IC ESP8266EX, QFN32-pin, 5*5 mm	NA	-	NA	–40 °C ~ +125 °C	5×5	5,000 & 1,000	1,000	MP	-
ESP8285 *Datasheet*	ESP8285N08	ESP8285N08	SMD IC ESP8285N08, QFN32-pin, 5*5 mm, 1 MB flash inside, -40 ℃ ~ +85 ℃	1 MB	-	NA	–40 °C ~ +85 °C	5×5	5,000 & 1,000	1,000	MP	-
	ESP8285H08	ESP8285H08	SMD IC ESP8285H08, QFN32-pin, 5*5 mm, 1 MB flash inside, -40 ℃ ~ +105 ℃	1 MB	-	NA	–40 °C ~ +105 °C	5×5	5,000 & 1,000	5,000	MP	-
	ESP8285H16	ESP8285H16	SMD IC ESP8285H16, QFN32-pin, 5*5 mm, 2 MB flash inside, -40 ℃ ~ +105 ℃	2 MB	-	NA	–40 °C ~ +105 °C	5×5	5,000 & 1,000	5,000	Sample	-

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP8266 Series of Modules												
ESP-WROOM-02D *Datasheet* **(*Recommend)**	ESP-WROOM-02D **(*Default)**	-	SMD Module ESP-WROOM-02D, ESP8266EX, 2 MB SPI flash, UART Mode	2 MB	-	Internal PCB on-board antenna	–40 °C ~ +85°C	18.00×20.00×3.20	650	650	MP	• ESP8266EX *Datasheet* • ESP8266-DevKitC *Getting Started*
	ESP-WROOM-02D (4 MB)	-	SMD Module ESP-WROOM-02D, ESP8266EX, 4 MB SPI flash, UART Mode	4 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	18.00×20.00×3.20	650	650	MP	
	ESP-WROOM-02D (High Temperature) **(*New)**	ESP-WROOM-02D(M1102H1600PS3Q0)	SMD Module ESP-WROOM-02D, ESP8266EX, 2 MB SPI flash, UART Mode, –40 °C ~ +105 °C	2 MB	-	Internal PCB on-board antenna	–40 °C ~ +105°C	18.00×20.00×3.20	650	650	MP	ESP8266EX *Datasheet*
ESP-WROOM-02U *Datasheet* **(*Recommend)**	ESP-WROOM-02U **(*Default)**	-	SMD Module ESP-WROOM-02U, ESP8266EX, 2 MB SPI flash, UART Mode, external IPEX antenna connector	2 MB	-	External IPEX antenna	-40 °C ~ +85 °C	18.00×14.30×3.20	650	650	MP	• ESP8266EX *Datasheet* • ESP8266-DevKitC *Getting Started*
	ESP-WROOM-02U (4 MB)	-	SMD Module ESP-WROOM-02U, ESP8266EX, 4 MB SPI flash, UART Mode, external IPEX antenna connector	4 MB	-	External IPEX antenna	–40 °C ~ +85 °C	18.00×14.30×3.20	650	650	MP	

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
	ESP-WROOM-02U (High Temperature) **(*New)**	ESP-WROOM-02U(M1102H1600US3Q0)	SMD Module ESP-WROOM-02U, ESP8266EX, 2 MB SPI flash, UART Mode, external IPEX antenna connector, –40 °C ~ +105 °C	2 MB	-	External IPEX antenna	-40 °C ~ +105 °C	18.00×14.30×3.20	650	650	MP	ESP8266EX *Datasheet*
ESP-WROOM-02 *Datasheet*	-	-	SMD Module, ESP8266EX, 2 MB SPI flash, UART Mode	2 MB	-	Internal PCB on-board antenna	– 40 °C ~ +85 °C	18.00×20.00×2.80	650	650	MP	ESP8266EX *Datasheet*
ESP-WROOM-S2 *Datasheet*	-	-	SMD Module, ESP8266EX, 2 MB SPI flash, SPI Mode	2 MB	-	Internal PCB on-board antenna	–40 °C ~ +85 °C	16.00×23.00×2.80	650	650	MP	ESP8266EX *Datasheet*
ESP8266 Series of Development Boards												
ESP8266-DevKitC *Getting Started* **(*Recommend)**	ESP8266-DevKitC-02D-F	ESP8266-DevKitC-02D-F	ESP8266 General Development Kit with ESP-WROOM-02D embedded and **female header** connector on board	2 MB	-	Internal PCB on-board antenna	–40 °C ~ +85°C	44.9×25.4	1	-	MP	ESP-WROOM-02D *Datasheet*
	ESP8266-DevKitC-02U-F	ESP8266-DevKitC-02U-F	ESP8266 General Development Kit, embeds ESP-WROOM-02U and **female header** connector on the board	2 MB	-	External IPEX antenna	–40 °C ~ +85 °C	44.9×25.4	1	-	MP	ESP-WROOM-02U *Datasheet*

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP-Launcher *Hardware Design Guidelines*	-	ESP-LAUNCHER	Development board for ESP8266EX, with external SMA antenna	4 MB	-	External SMA antenna	–25 °C ~ +85 °C	46×78.5	1	-	MP	ESP8266EX *Datasheet*

4. Production Testing Equipment

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
Production Testing Board												
ESP-FactoryTB1	-	ESP-FactoryTB1	Production testing board with two high-speed serial ports	-	-	-	–40 °C ~ +65 °C	66.5×46.0	1	-	MP	All Espressif products
Signal Boards												
ESP-BAT32		ESP-BAT32	RF testing board for ESP32 products	4 MB	-	External SMA antenna	–25 °C ~ +75 °C	100×60×25	1	-	MP	ESP32 products
ESP-BAT8	-	ESP-BAT8	RF testing board for ESP8266 products	4 MB	-	External SMA antenna	–25 °C ~ +75 °C	100×60×25	1	-	MP	ESP8266 products

Release Notes

Date	Version	Release notes
2017.06	V1.0	First release.
2017.08	V1.1	Updated version.
2017.08	V1.2	• Added ESP32-PICO-D4; • Deleted ESP8689; • Corrected typos.
2017.09	V1.3	• Updated SPQ and MOQ for ESP32-PICO-D4; • Updated the marketing status of ESP32-D0WD and ESP32-D2WD to MP; • Added ESP-WROOM-02D module.
2017.11	V1.4	• Added ESP-WROOM-32D and ESP32-WROOM-32U modules; • Added ESP32-PICO-KIT; • Added ESP-WROOM-02D and ESP-WROOM-02U modules; • Updated SPQ and MOQ for several modules.
2017.12	V1.5	Corrected some typos.
2018.03	V1.6	Updated the product names of ESP-WROOM-32 and ESP-WROOM-32D.
2018.06	V1.7	• Updated the marketing status of ESP32-S0WD, ESP32-WROOM-32D, ESP32-WROOM-32U, ESP-WROOM-02D, and ESP-WROOM-02U to MP; • Updated the module information of ESP32-DevKitC; • Updated the information of PSRAM integrated on ESP32-WROVER and ESP32-WROVER-I; • Added ESP32-SOLO-1, ESP32-LyraT, ESP32-LyraTD-MSC, ESP32-Sense Kit, and ESP-Prog.
2018.06	V1.8	• Added the link to ESP32-SOLO-1 Datasheet; • Added ESP32-WROVER-B and ESP32-WROVER-IB.

Date	Version	Release notes
2018.07	V1.9	• Updated the marketing status of ESP32-PICO-D4, ESP32-LyraT, ESP32-LyraTD-MSC, ESP32-Sense Kit, ESP-Prog, ESP32-WROVER-B, and ESP32-WROVER-IB to MP; • Added ESP32-MeshKit-Sense and ESP32-MeshKit-Light. • Added the column “Custom flash size” for modules available for customized order.
2018.09	V2.0	• Added labels ***New** ,***Recommend** and ***Default**; • Updated document cover; • Updated information of modules' dimensions; • Updated the description of a number of products.
2018.11	V2.1	• Added variants of ESP32-WROOM-32D and ESP32-WROOM-32U with high temperature range (–40 °C ~ +105 °C); • Updated the operating temperature range of ESP32-WROVER from –40 °C ~ 65 °C to –40 °C ~ 85 °C; • Removed all ESP32-DevKitC variants with female headers; • Updated the description of ESP32-MeshKit.
2018.12	V2.2	• Removed information about ESP8089; • Added new products and variants: - ESP-WROOM-02DC - ESP-WROOM-02UC - ESP-WROOM-02D (High Temperature) - ESP-WROOM-02U (High Temperature)
2019.01	V2.3	Added the development board for image recognition and audio processing ESP-EYE.
2019.02	V2.4	Removed information about ESP-WROOM-02DC and ESP-WROOM-02UC.
2019.05	V2.5	Added a new product ESP32-LCDKit
2019.07	V2.6	• Corrected a typo in the product description of ESP32-WROOM-32; • Added a new variant for ESP32-SOLO-1; • Updated the description of ESP32-SOLO-1.

Date	Version	Release notes
2019.08	V2.7	• Added a new product ESP32-LyraTD-DSPG; • Updated SPQ and MOQ information of the following products: - ESP32-D0WD - ESP32-D0WDQ6 - ESP32-D2WD - ESP32-S0WD - ESP32-PICO-D4 - ESP8266EX • Updated information of ESP8285.
2019.08	V2.8	• Updated information of ESP32 series of chips; • Added MPNs for ESP32-WROOM-32D and ESP32-WROOM-32U; • Move the location of ESP32-LyraTD-DSPG in the table, so it is closer to other ESP32-LyraT boards.
2019.09	V2.9	Added a new product ESP32-LyraT-Mini.
2019.11	V3.0	Added a new product ESP32-LyraTD-SYNA.
2020.01	V3.1	• Added new product variants ESP32-D0WD-V3 and ESP32-D0WDQ6-V3. • Added Submit Documentation Feedback link in the footer.

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