




Espressif

Product Ordering Information



Version 3.6
Espressif Systems
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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.

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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	5x5	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	6x6	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	5x5	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	6x6	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 Datasheet	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-U4WDH (*New)	-	SMD IC ESP32-U4WDH, ESP32 ECO V3, single-core MCU, Wi-Fi & Bluetooth combo, QFN 48-pin, 5*5 mm	4 MB	-	-	-40 °C ~ +105 °C	5×5	5,000 & 1,000	1,000	MP	-
ESP32 Series of Modules												
	ESP32-WROOM-32E (*Default)	ESP32-WROOM-32E(M13EH3200PH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 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	Sample	



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-WROOM-32E (*New) (*Recommend)	ESP32-WROOM-32E (8 MB) (*New)	ESP32-WROOM-32E(M113EH6400PH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 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	Sample	ESP32-D0WD-V3 Datasheet
	ESP32-WROOM-32E (16 MB) (*New)	ESP32-WROOM-32E(M113EH2800PH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 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	Sample	
ESP32-WROOM-32D Datasheet	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	
	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-32UE (*Default)	ESP32-WROOM-32UE(M113EH3200UH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 4 MB SPI flash, IPEX antenna connector	4 MB	-	External IPEX antenna	-40 °C ~ +85 °C	18.00×19.20×3.20	650	650	Sample	



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-WROOM-32UE	ESP32-WROOM-32UE (8 MB)	ESP32-WROOM-32UE(M113EH6400UH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 8 MB SPI flash, IPEX antenna connector	8 MB	-	External IPEX antenna	-40 °C ~ +85 °C	18.00×19.20×3.20	650	650	Sample	ESP32-D0WD-V3 Datasheet
	ESP32-WROOM-32UE (16 MB)	ESP32-WROOM-32UE(M113EH2800UH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 16 MB SPI flash, IPEX antenna connector	16 MB	-	External IPEX antenna	-40 °C ~ +85 °C	18.00×19.20×3.20	650	650	Sample	
ESP32-WROOM-32U Datasheet	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 (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	-	ESP32-WROOM-32(M103QH3200PH3Q0)	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



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-WROOM-32SE Datasheet	ESP32-WROOM-32SE	ESP32-WROOM-32SE(M123DH3200PH3Q0)	SMD module , ESP32-D0WD, 32Mbits SPI Flash, ATECC608A chip, PCB antenna	4 MB	-	Internal PCB on-board antenna	-40 °C ~ +85 °C	18.00×25.5 0×3.10	650	650	MP	ESP32-D0WD Datasheet
ESP32-SOLO-1 Datasheet	ESP32-SOLO-1 (*Default)	ESP32-SOLO-1(M113S H3200PH3Q0)	SMD module, ESP32-S0WD, single core, 4 MB SPI flash, PCB antenna	4 MB	-	Internal PCB on-board antenna	-40 °C ~ +85 °C	18.00×25.5 0×3.10	650	650	MP	ESP32-S0WD Datasheet
	ESP32-SOLO-1 (High Temp. 105°C) (*New)	ESP32-SOLO-1(M113S H3200PS3Q0)	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	18.00×25.5 0×3.10	650	650	MP	ESP32- DevKitC-S1 Getting Started Guide
ESP32-WROVER-E (*New) (*Recommend)	ESP32-WROVER-E (*Default)	ESP32-WROVER-E(M213EH3264PH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 3.3 V, 8 MB PSRAM, 4 MB SPI flash, PCB antenna	4 MB	8 MB	Internal PCB on-board antenna	-40 °C ~ +85 °C	18.00×31.4 0×3.30	650	650	Sample	ESP32-D0WD-V3 Datasheet
	ESP32-WROVER-E (8 MB flash)	ESP32-WROVER-E(M213EH6464PH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 3.3 V, 8 MB PSRAM, 8 MB SPI flash, PCB antenna	8 MB	8 MB	Internal PCB on-board antenna	-40 °C ~ +85 °C	18.00×31.4 0×3.30	650	650	Sample	



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
	ESP32-WROVER-E (16 MB flash)	ESP32-WROVER-E(M213EH2864P H3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 3.3 V, 8 MB PSRAM, 16 MB SPI flash, PCB antenna	16 MB	8 MB	Internal PCB on-board antenna	-40 °C ~ +85 °C	18.00×31.40×3.30	650	650	Sample	
ESP32-WROVER-IE (*New) (*Recommend)	ESP32-WROVER-IE (*Default)	ESP32-WROVER-IE(M213EH3264 UH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 3.3 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	Sample	ESP32-D0WD-V3 Datasheet
	ESP32-WROVER-IE (8 MB flash)	ESP32-WROVER-IE(M213EH6464 UH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 3.3 V, 8 MB PSRAM, 8 MB SPI flash, IPEX antenna connector	8 MB	8 MB	External IPEX antenna	-40 °C ~ +85 °C	18.00×31.40×3.30	650	650	Sample	
	ESP32-WROVER-IE (16 MB flash)	ESP32-WROVER-IE(M213EH2864 UH3Q0)	SMD module, ESP32-D0WD-V3, ESP32 ECO V3, 3.3 V, 8 MB PSRAM, 16 MB SPI flash, IPEX antenna connector	16 MB	8 MB	External IPEX antenna	-40 °C ~ +85 °C	18.00×31.40×3.30	650	650	Sample	
	ESP32-WROVER-B (*Default)	ESP32-WROVER-B(M213DH3264 PH3Q0)	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 ~ +85 °C	18.00×31.40×3.30	650	650	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-WROVER-B Datasheet	ESP32-WROVER-B (8 MB flash)	ESP32-WROVER-B(M213DH6464 PH3Q0)	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 ~ +85 °C	18.00×31.4 0×3.30	650	650	MP	ESP32-DevKitC-VB Getting Started Guide
	ESP32-WROVER-B (16 MB flash)	ESP32-WROVER-B(M213DH2864 PH3Q0)	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 ~ +85 °C	18.00×31.4 0×3.30	650	650	MP	ESP-WROVER-KIT-VB Getting Started Guide
	ESP32-WROVER-IB (4 MB flash)	ESP32-WROVER-IB(M213DH3264 UH3Q0)	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 ~ +85 °C	18.00×31.4 0×3.30	650	650	MP	
	ESP32-WROVER-IB (8 MB flash)	ESP32-WROVER-IB(M213DH6464 UH3Q0)	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 ~ +85 °C	18.00×31.4 0×3.30	650	650	MP	ESP32-D0WD Datasheet
	ESP32-WROVER-IB (16 MB flash)	ESP32-WROVER-IB(M213DH2864 UH3Q0)	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 ~ +85 °C	18.00×31.4 0×3.30	650	650	MP	ESP32-DevKitC-VIB Getting Started Guide
	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	18.00×31.4 0×3.30	650	650	MP	ESP32-D0WDQ6 Datasheet



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-WROVER 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	18.00×31.4 0×3.30	650	650	MP	ESP32-D0WDQ6 Datasheet
ESP32-PICO-V3 (*New) (*Recommend)	ESP32-PICO-V3	-	Module in SiP form, ESP32 ECO V3 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-V3-ZERO (*New)	ESP32-PICO-V3-ZERO(*Default)	ESP32-PICO-V3-ZERO(P103AH00 00PH3Q0)	SMD module , ESP32-PICO-V3, PCB antenna	-	-	Internal PCB on-board antenna	-40 °C ~ +85 °C	16.00×23.0 0×2.30 (±0.15)	650	650	Sample	ESP32-PICO-V3
ESP32-PICO-D4 Datasheet	-	-	Module in SiP form, ESP32 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	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-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 Getting Started Guide	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
	ESP32-DevKitC-32E (*New)	ESP32-DevKitC-32E	ESP32 general-purpose development board, embeds ESP32-WROOM-32E, 4 MB flash, with pin header	4 MB	-	Internal PCB on-board antenna	-40 °C ~ +85 °C	54.4×27.9	1	-	Sample	ESP32-WROOM-32E
	ESP32-DevKitC-32UE (*New)	ESP32-DevKitC-32UE	ESP32 general-purpose development board, embeds ESP32-WROOM-32UE, 4 MB flash, with pin header	4 MB	-	External IPEX antenna	-40 °C ~ +85 °C	54.4×27.9	1	-	Sample	ESP32-WROOM-32UE
	ESP32-DevKitC-VE (*New)	ESP32-DevKitC-VE	ESP32 general-purpose development board, embeds ESP32-WROVER-E, 8 MB flash, with pin header	8 MB	8 MB	Internal PCB on-board antenna	-40 °C ~ +85 °C	54.4×27.9	1	-	Sample	ESP32-WROVER-E



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
	ESP32-DevKitC-VIE (*New)	ESP32-DevKitC-VIE	ESP32 general-purpose development board, embeds ESP32-WROVER-IE, 8 MB flash, with pin header	8 MB	8 MB	External IPEX antenna	-40 °C ~ +85 °C	54.4×27.9	1	-	Sample	ESP32-WROVER-IE
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-Vaquita-DSPG (*New)	-	ESP32-Vaquita-DSPG	Alexa built-in solution powered by ESP32 and DSP Group's DBMD5P audio SoC, 2-Mic array, voice enablement, AWS-IoT cloud connectivity.	16 MB	8 MB	Internal PCB on-board antenna	-40 °C ~ +65 °C	Main board: 85 mm X 65 mm Sun board: 65 mm X 24 mm	1	-	MP	ESP32-WROVER-E
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



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-LyraTD-SYNA User Guide (*New) (*Recommend)	-	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 Cancellation (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-E
ESP32-LyraTD-MSD User Guide	-	ESP32-LyraTD-MSD	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



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
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 WWFE (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
ESP32-Korvo (*New) (*Recommend)	-	ESP32-Korvo	ESP32-based audio development board with microphone arrays, together with Espressif's speech recognition SDK ESP-Skainet, ESP32-Korvo is suitable for far-field speech recognition applications with low power consumption, such as smart displays, smart plugs, smart switches, etc.	16 MB	8 MB	Internal PCB on-board antenna	-20 °C ~ +70 °C	Main board: diameter 88.00 mm Sun board: diameter 88.00 mm	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
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
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



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
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
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	73.4x25.1	1	-	MP	ESP32-DevKitC Getting Started Guide
ESP32 Series of Development Kits												



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
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
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. ESP32-S2 Series

Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-S2 Series of SoCs												
ESP32-S2 Datasheet (*New)	ESP32-S2	-	SMD Wi-Fi IC, ESP32-S2, single-core MCU, QFN 56-pin, 7*7 mm	-	-	-	-40 °C ~ +125 °C	7×7	2,000 & 1,000	1,000	MP	-
ESP32-S2 Series of Modules												
ESP32-S2-WROOM Datasheet (*New)	ESP32-S2-WROOM (*Default)	ESP32-S2-WROOM(M22S2H3200PH3Q0)	SMD module, ESP32-S2, 4MB SPI flash, PCB antenna	4 MB	-	Internal PCB on-board antenna	-40 °C ~ +85 °C	18.00×31.00×3.30 (±0.15)	650	650	Sample	ESP32-S2 Datasheet ESP32-S2-Saola-1
ESP32-S2-WROOM-I Datasheet (*New)	ESP32-S2-WROOM-I	ESP32-S2-WROOM-I(M22S2H3200UH3Q0)	SMD module, ESP32-S2, 4MB SPI flash, IPEX antenna connector	4 MB	-	External IPEX antenna	-40 °C ~ +85 °C	18.00×31.00×3.30 (±0.15)	650	650	Sample	ESP32-S2 Datasheet ESP32-S2-Saola-1
ESP32-S2-WROVER Datasheet (*New)	ESP32-S2-WROVER (*Default)	ESP32-S2-WROVER(M22S2H3216PH3Q0)	SMD module, ESP32-S2, 3.3V, 2MB PSRAM, 4MB SPI flash, PCB Antenna	4 MB	2 MB	Internal PCB on-board antenna	-40 °C ~ +85 °C	18.00×31.00×3.30 (±0.15)	650	650	Sample	ESP32-S2 Datasheet ESP32-S2-Saola-1
ESP32-S2-WROVER-I Datasheet (*New)	ESP32-S2-WROVER-I	ESP32-S2-WROVER-I(M22S2H3216UH3Q0)	SMD module, ESP32-S2, 3.3V, 2MB PSRAM, 4MB SPI flash, IPEX antenna connector	4 MB	2 MB	External IPEX antenna	-40 °C ~ +85 °C	18.00×31.00×3.30 (±0.15)	650	650	Sample	ESP32-S2 Datasheet ESP32-S2-Saola-1



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-S2 Series of Development Boards												
ESP32-S2-Saola-1 (*New)	ESP32-S2-Saola-1R	ESP32-S2-Saola-1R	ESP32-S2 general-purpose development board, embeds ESP32-S2-WROVER, 4 MB flash, with pin header	4 MB	2 MB	Internal PCB on-board antenna	-40 °C ~ +85 °C	53.9x27.9	1	-	Sample	ESP32-S2-WROVER Datasheet
	ESP32-S2-Saola-1RI	ESP32-S2-Saola-1RI	ESP32-S2 general-purpose development board, embeds ESP32-S2-WROVER-I, 4 MB flash, with pin header	4 MB	2 MB	External IPEX antenna	-40 °C ~ +85 °C	53.9x27.9	1	-	Sample	ESP32-S2-WROVER-I Datasheet
	ESP32-S2-Saola-1M	ESP32-S2-Saola-1M	ESP32-S2 general-purpose development board, embeds ESP32-S2-WROOM, 4 MB flash, with pin header	4 MB	-	Internal PCB on-board antenna	-40 °C ~ +85 °C	53.9x27.9	1	-	Sample	ESP32-S2-WROOM Datasheet
	ESP32-S2-Saola-1MI	ESP32-S2-Saola-1MI	ESP32-S2 general-purpose development board, embeds ESP32-S2-WROOM-I, 4 MB flash, with pin header	4 MB	-	External IPEX antenna	-40 °C ~ +85 °C	53.9x27.9	1	-	Sample	ESP32-S2-WROOM-I Datasheet



4. 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 °C ~ +85 °C	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 °C ~ +105 °C	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 °C ~ +105 °C	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)	ESP-WROOM-02D(M1102H1600PH3Q0)	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	<ul style="list-style-type: none"> ESP8266EX Datasheet ESP8266-DevKitC Getting Started
	ESP-WROOM-02D (4 MB)	ESP-WROOM-02D(M1102H3200PH3Q0)	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)	ESP-WROOM-02U(M1102H1600UH3Q0)	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	<ul style="list-style-type: none"> ESP8266EX Datasheet ESP8266-DevKitC Getting Started
	ESP-WROOM-02U (4 MB)	ESP-WROOM-02U(M1102H3200UH3Q0)	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(M1 102H1600US3Q0)	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



5. 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
Flashing Boards												
ESP32-DevKitS (*New)	ESP32-DevKitS	ESP32-DevKitS	ESP32-DevKitS is a flashing board used to flash official ESP32 WROOM and SOLO modules.	-	-	-	-20 °C ~ +65 °C	48.3×28.9	1	-	MP	ESP32 WROOM and SOLO modules



Product Name	Variants	MPN	Product Description	Flash Size	PSRAM Size	Antenna Type	Operating Temperature	Dimensions (mm)	SPQ	MOQ	Production Status	Related Product
ESP32-DevKitS (*New)	ESP32-DevKitS-R	ESP32-DevKitS-R	ESP32-DevKitS-R is a flashing board used to flash official ESP32 WROVER modules.	-	-	-	-20 °C ~ +65 °C	48.3x28.9	1	-	MP	ESP32 WROVER modules
ESP8266-DevKitS (*New)	ESP8266-DevKitS	ESP8266-DevKitS	ESP8266-DevKitS is a flashing board used to flash official ESP8266 WROOM modules.	-	-	-	-20 °C ~ +65 °C	38.9x28.9	1	-	MP	ESP8266 WROOM modules



Release Notes

Date	Version	Release notes
2017.06	V1.0	First release.
2017.08	V1.1	Updated version.
2017.08	V1.2	<ul style="list-style-type: none">• Added ESP32-PICO-D4;• Deleted ESP8689;• Corrected typos.
2017.09	V1.3	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Added the link to ESP32-SOLO-1 Datasheet;• Added ESP32-WROVER-B and ESP32-WROVER-IB.



Date	Version	Release notes
2018.07	V1.9	<ul style="list-style-type: none">Updated the marketing status of ESP32-PICO-D4, ESP32-LyraT, ESP32-LyraTD-MSK, 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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Removed information about ESP8089;Added new products and variants:<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">• Added a new product ESP32-LyraTD-DSPG;• Updated SPQ and MOQ information of the following products:<ul style="list-style-type: none">- ESP32-D0WD- ESP32-D0WDQ6- ESP32-D2WD- ESP32-S0WD- ESP32-PICO-D4- ESP8266EX• Updated information of ESP8285.
2019.08	V2.8	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Added new product variants ESP32-D0WD-V3 and ESP32-D0WDQ6-V3.• Added Submit Documentation Feedback link in the footer.



Date	Version	Release notes
2020.01	V3.2	<ul style="list-style-type: none">Added the following products:<ul style="list-style-type: none">ESP32-U4WDHESP32-WROOM-32E (*Default)ESP32-WROVER-E seriesESP32-WROVER-IE seriesESP32-PICO-V3ESP32-S2ESP32-S2-WROOMESP32-S2-WROOM-IESP32-S2-WROVERESP32-S2-WROVER-IESP32-S2-Saola seriesESP32-DevKitS seriesESP8266-DevKitSESP32-WROOM-32SEModified the information for the following products:<ul style="list-style-type: none">“Related Product” and tags for ESP32-LyraTD-SYNATags for ESP32-WROOM-32D, ESP32-WROOM-32U and ESP32-WROVER-B



Date	Version	Release notes
2020.03	V3.3	<ul style="list-style-type: none">• Added the following products:<ul style="list-style-type: none">- ESP32-WROOM-32E (8 MB)- ESP32-WROOM-32E (16 MB)- ESP32-WROOM-32UE• Modified the information for the following products:<ul style="list-style-type: none">- Added MPN information for ESP32-WROOM-32, ESP-WROOM-02D (*Default), ESP-WROOM-02D (4 MB), ESP-WROOM-02U (*Default) and ESP-WROOM-02U (4 MB);- ESP32-S2-Saola renamed to ESP32-S2-Saola-1.
2020.03	V3.4	<ul style="list-style-type: none">• Modified the MPN and operating temperatures for the following products:<ul style="list-style-type: none">- ESP32-WROVER-E- ESP32-WROVER-IE- ESP32-WROVER-B• Added a Table of Contents• Updated “Submit Documentation Feedback” link
2020.03	V3.5	<ul style="list-style-type: none">• Added the following product:<ul style="list-style-type: none">- ESP32-Vaquita-DSPG• Modified the information for the following products:<ul style="list-style-type: none">- The production status of ESP32-U4WDH;- The dimensional tolerance of ESP32-S2-WROOM, ESP32-S2-WROOM-I, ESP32-S2-WROVER and ESP32-S2-WROVER-I.



Date	Version	Release notes
2020.04	V3.6	<ul style="list-style-type: none">• Added the following product:<ul style="list-style-type: none">- ESP32-Korvo- ESP32-PICO-V3-ZERO• Added the following variants in ESP32-DevKitC:<ul style="list-style-type: none">- ESP32-DevKitC-32E- ESP32-DevKitC-32UE- ESP32-DevKitC-VE- ESP32-DevKitC-VIE• Modified the information for the following products:<ul style="list-style-type: none">- Provided more detailed information in the product description of ESP32-PICO-V3 and ESP32-PICO-D4.



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