

取消 ESP32 (4 MB flash) 系列模组产品出厂配置乐鑫通用 AT 固件 Discontinuation of Default Flashing Espressif Common AT Firmware on ESP32 (4 MB flash) Series Modules			
PCN 编号 PCN No.	PCN20250602	提出日期 Issue Date of PCN	2025/06/26
变更日期 Proposed Date of Change	2025/07/14	预计变更后产品首次出货日期 Proposed Date of First Shipment After Change	2025/07/30
PCN 类型 PCN Category	☒ 客户需要批准/ Customer Approval Required ☐ 客户通知/ Customer Notification		
1. 影响产品名称/ Affected Product Name			
产品名称 Product Name	订购代码 Ordering Code	变更前乐鑫通用 AT 固件料号 Espressif Common AT FW PN Before Change	
ESP32-WROOM-32	ESP32-WROOM-32-N4	ESP32U012	
ESP32-WROOM-32D	ESP32-WROOM-32D-N4	ESP32U012	
ESP32-WROOM-32D	ESP32-WROOM-32D-H4	ESP32U012	
ESP32-WROOM-32D	ESP32-WROOM-32D(M113DH3200PS3Q0)	ESP32U012	
ESP32-WROOM-32U	ESP32-WROOM-32U-N4	ESP32U012	
ESP32-WROOM-32U	ESP32-WROOM-32U-H4	ESP32U012	
ESP32-WROOM-32U	ESP32-WROOM-32U(M113DH3200US3Q0)	ESP32U012	
ESP32-WROOM-32U	ESP32-WROOM-32U(M113DH3200UH3Q0)	ESP32U012	
ESP32-WROOM-32E	ESP32-WROOM-32E-N4	ESP32U012	
ESP32-WROOM-32E	ESP32-WROOM-32E-H4	ESP32U012	
ESP32-WROOM-32E	ESP32-WROOM-32E(M113EH3200PS3Q0)	ESP32U012	
ESP32-WROOM-32E	ESP32-WROOM-32E(M113EH3200PH3Q0)	ESP32U012	
ESP32-WROOM-32UE	ESP32-WROOM-32UE-N4	ESP32U012	
ESP32-WROOM-32UE	ESP32-WROOM-32UE-H4	ESP32U012	
ESP32-WROOM-32UE	ESP32-WROOM-32UE(M113EH3200US3Q0)	ESP32U012	
ESP32-WROOM-32UE	ESP32-WROOM-32UE(M113EH3200UH3Q0)	ESP32U012	
ESP32-SOLO-1	ESP32-SOLO-1-N4	ESP32S11	
ESP32-SOLO-1	ESP32-SOLO-1-H4	ESP32S11	

	ESP32-MINI-1	ESP32-MINI-1-N4	32MINIU002
	ESP32-MINI-1	ESP32-MINI-1-H4	32MINIU002
	ESP32-MINI-1U	ESP32-MINI-1U-N4	32MINIU002
	ESP32-MINI-1U	ESP32-MINI-1U-H4	32MINIU002
2. 变更原因/ Reason for Change 根据对客户实际使用情况的调查，大部分采购段落 1 中所述模块的客户未使用乐鑫通用 AT 固件，少数使用 AT 固件的客户对固件版本有不同要求。因此，段落 1 中所述模块在出厂前将不预烧录乐鑫通用 AT 固件。 Based on the actual customer usage data, most of the customers who purchased modules mentioned in Para 1 did not use Espressif common AT firmware. Among the few who did, there were varying requirements for firmware versions. Therefore, Espressif will not flash the Espressif common AT firmware on the modules in Para 1 before shipment.			
3. 变更描述/ Description of Change 段落 1 中列出的模块出货时，不配置乐鑫通用 AT 固件。 No Espressif common AT firmware will be flashed on the modules listed in Para 1.			
4. 变更对比/ Change Comparison 请见附录 I：变更对比。 Please refer to Appendix I: Change Comparison. 识别方式/ Identification Method: 通过包装标签信息识别该变更。 Identify the change by querying the Package Label Information.			
5. 变更影响/ Impact of Change 1) 品质和性能/ Quality & Performance: 由于产品的硬件未做变更，如贵司不使用上述模块出厂配置的乐鑫通用 AT 固件，则此变更对产品品质、性能及使用均无影响；如贵司使用上述模块出厂时配置的乐鑫通用 AT 固件，请及时联系对接的商务人员或 sales@espressif.com，我们将提供定制生产。 There are no hardware changes to the products mentioned in Para 1. Therefore, if you don't use Espressif common AT firmware, this change will have no impact on the quality, performance, and usage of such products. However, if you do, please contact your business contacts at Espressif or via sales@espressif.com. We will provide customized production to your needs.			

- 2) 交期/ Delivery: 无影响/ No impact
- 3) 订购代码/ Ordering Code: 无影响/ No impact
- 4) 软件/ Software: 无影响/ No impact
- 5) 认证/ Certification: 无影响/ No impact
- 6) 技术规格书/ Datasheet: 无影响/ No impact

6. 变更前后产品处理/ How to Deal with Products FIFO

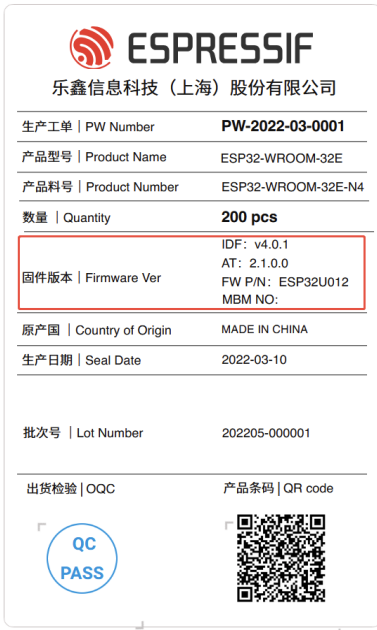
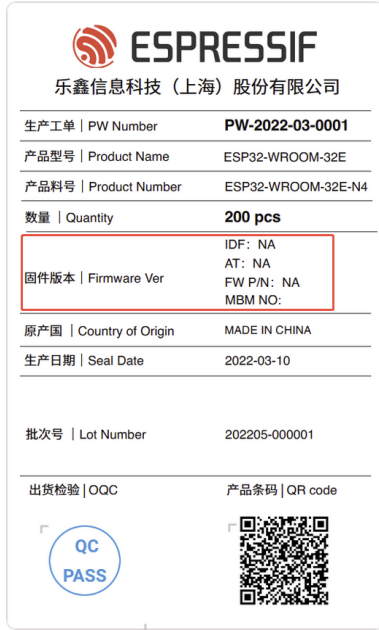
7. 给使用者的验证建议/ Verification Suggestion to Users

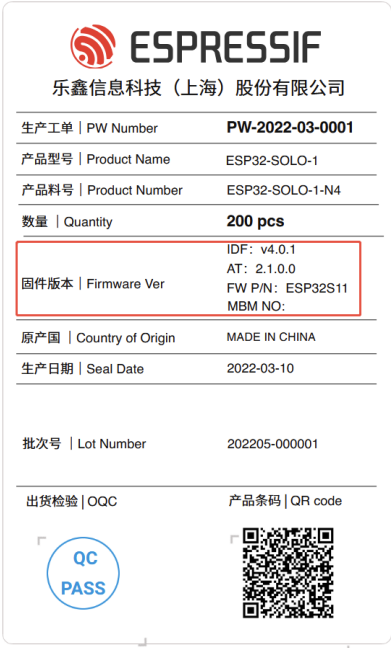
如贵司不使用上述模组出厂配置的乐鑫通用 AT 固件，则此变更对产品品质、性能及使用均无影响。

如贵司使用上述模组出厂时配置的乐鑫通用 AT 固件，请及时联系对接的我司商务人员或 sales@espressif.com，我们将提供定制生产。

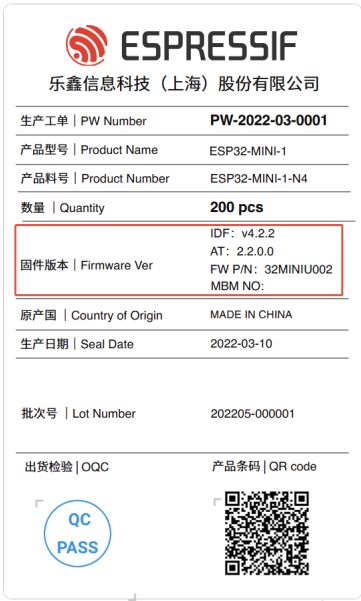
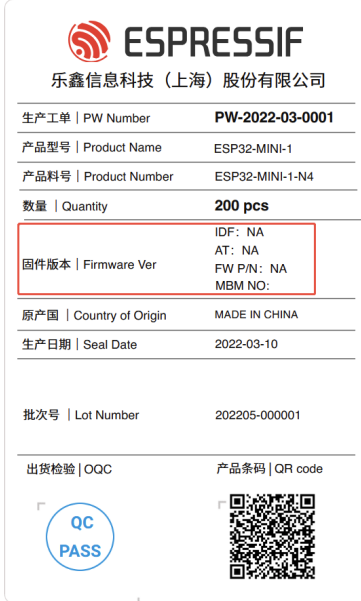
If you don't use Espressif common AT firmware, this change will have no impact on the quality, performance, and usage of such products. However, if you do, please contact your business contacts at Espressif or via sales@espressif.com. We will provide customized production to your needs.

Appendix I 变更对比/ Change Comparison

1. Modules with Firmware PN ESP32U012		
Item	变更前 Before Change	变更后 After Change
产品名称 Product Name	无变化 No Changes	
丝印 Marking	无变化 No Changes	
标签（含固件版本信息） Firmware Version Information on Product Label	 The label shows the Espressif logo, company name, and product information. The 'Firmware Version' field is highlighted with a red box, showing 'IDF: v4.0.1', 'AT: 2.1.0.0', 'FW P/N: ESP32U012', and 'MBM NO:'.	 The label shows the Espressif logo, company name, and product information. The 'Firmware Version' field is highlighted with a red box, showing 'IDF: NA', 'AT: NA', 'FW P/N: NA', and 'MBM NO:'.
固件校验 Firmware Check	通过串口 AT 指令查询 AT 版本号 Query AT version number through serial AT command 发送 Send: AT+GMR 返回 Reply: AT version: 2.1.0.0	NA

2. Modules with Firmware PN ESP32S11		
Item	变更前 Before Change	变更后 After Change
产品名称 Product Name	无变化 No Changes	
丝印 Marking	无变化 No Changes	
标签（含固件版本信息） Firmware Version Information on Product Label	 乐鑫信息科技（上海）股份有限公司 生产工单 PW Number PW-2022-03-0001 产品型号 Product Name ESP32-SOLO-1 产品料号 Product Number ESP32-SOLO-1-N4 数量 Quantity 200 pcs 固件版本 Firmware Ver IDF: v4.0.1 AT: 2.1.0.0 FW P/N: ESP32S11 MBM NO: 原产国 Country of Origin MADE IN CHINA 生产日期 Seal Date 2022-03-10 批次号 Lot Number 202205-000001 出货检验 OQC 产品条码 QR code QC PASS	 乐鑫信息科技（上海）股份有限公司 生产工单 PW Number PW-2022-03-0001 产品型号 Product Name ESP32-SOLO-1 产品料号 Product Number ESP32-SOLO-1-N4 数量 Quantity 200 pcs 固件版本 Firmware Ver IDF: NA AT: NA FW P/N: NA MBM NO: 原产国 Country of Origin MADE IN CHINA 生产日期 Seal Date 2022-03-10 批次号 Lot Number 202205-000001 出货检验 OQC 产品条码 QR code QC PASS
固件校验 Firmware Check	通过串口 AT 指令查询 AT 版本号 Query AT version number through serial AT command 发送 Send: AT+GMR 返回 Reply: AT version: 2.1.0.0	NA

3. Modules with Firmware PN 32MINIU002

Item	变更前 Before Change	变更后 After Change
产品名称 Product Name	无变化 No Changes	
丝印 Marking	无变化 No Changes	
标签（含固件版本信息） Firmware Version Information on Product Label	 The label shows the following information: ESPRESSIF, 乐鑫信息科技（上海）股份有限公司, 生产工单 PW Number: PW-2022-03-0001, 产品型号 Product Name: ESP32-MINI-1, 产品料号 Product Number: ESP32-MINI-1-N4, 数量 Quantity: 200 pcs, 固件版本 Firmware Ver: IDF: v4.2.2, AT: 2.2.0.0, FW P/N: 32MINIU002, MBM NO: (highlighted), 原产国 Country of Origin: MADE IN CHINA, 生产日期 Seal Date: 2022-03-10, 批次号 Lot Number: 202205-000001, 出货检验 OQC: (highlighted), 产品条码 QR code: (highlighted), QC PASS, and a QR code.	 The label shows the following information: ESPRESSIF, 乐鑫信息科技（上海）股份有限公司, 生产工单 PW Number: PW-2022-03-0001, 产品型号 Product Name: ESP32-MINI-1, 产品料号 Product Number: ESP32-MINI-1-N4, 数量 Quantity: 200 pcs, 固件版本 Firmware Ver: IDF: NA, AT: NA, FW P/N: NA, MBM NO: (highlighted), 原产国 Country of Origin: MADE IN CHINA, 生产日期 Seal Date: 2022-03-10, 批次号 Lot Number: 202205-000001, 出货检验 OQC: (highlighted), 产品条码 QR code: (highlighted), QC PASS, and a QR code.
固件校验 Firmware Check	通过串口 AT 指令查询 AT 版本号 Query AT version number through serial AT command 发送 Send: AT+GMR 返回 Reply: AT version: 2.2.0.0	NA

邮件订阅**Espressif Email Notifications**

乐鑫为注册用户提供电子邮件通知服务，用户可通过[乐鑫订阅系统](#)接收技术文档更新、新闻通讯、PCN 等邮件通知。

Espressif sends email notifications of technical documentation changes, along with newsletters, PCNs and other valuable information, to subscribed customers only. If you wish to stay updated on our products and services, please subscribe [here](#).

客户响应要求**Customer Response Requirements****需客户批准的变更/ Change Requiring Customer Approval:**

- a) 客户须在乐鑫发出 PCN 后的 30 天内告知乐鑫已收到 PCN。如客户未在接收到 PCN 后的 30 天内告知已收到，则视为客户收到变更。

Customers are requested to acknowledge receipt of the PCN within 30 calendar days from the date of issue of the PCN. Customers would be considered as notified 30 calendar days after issue of the PCN if no acknowledgement is received.

- b) 自发布 PCN 之日起 90 天内，客户没有任何其他反馈，则表示客户接受该 PCN。

The lack of any additional responses from customers within 90 calendar days from the date of issue of the PCN constitutes acceptance of the proposed changes.

客户通知/ Customer Notification:

- a) 客户需在乐鑫发出 PCN 后 14 天内通知乐鑫收到该 PCN。如客户未在接收到 PCN 14 日反馈乐鑫，则视为客户确认该 PCN。

Customers are requested to acknowledge receipt of the PCN within 14 calendar days from the date of issue of the PCN. Customers would be considered as having acknowledged the PCN if no response is received after 14 calendar days.

请反馈至 pcn@espressif.com。

Please send feedback to pcn@espressif.com.

客户批准/确认信息**Customer Approval / Acknowledgement and Remarks**

客户公司全称:

Customer's Company Name:

PCN 评审结果

PCN Review Result

☐ 批准/确认 Accepted / Acknowledged

☐ 不批准 Rejected

☐ 需要分析 Further Analysis Required

客户意见/ Comment:

公司代表人姓名

Representative's Name

公司代表人职责

Representative's Job
Title

公司代表人签名

Representative's
Signature

日期

Date