

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-S3 系列产品的芯片版本升级 Upgrade Chip Revision of ESP32-S3 Series Products																							
PCN 编号 PCN No.	PCN20220602	提出日期 Issue Date of PCN	2022/08/09																				
变更日期 Proposed Date of Change	2022/08/12	预计变更后产品首次出货日期 Proposed Date of First Shipment After Change	2022/11/09																				
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/Affected Products																							
1) 芯片产品/ Chip Products: ESP32-S3, ESP32-S3FN8, ESP32-S3R2, ESP32-S3R8, ESP32-S3R8V, ESP32-S3FH4R2																							
2) 模组产品/ Module Products:																							
<table><tr><th>Product Name</th><th>MPN</th></tr><tr><td rowspan="10">ESP32-S3-WROOM-1</td><td>ESP32-S3-WROOM-1-N4</td></tr><tr><td>ESP32-S3-WROOM-1-N8</td></tr><tr><td>ESP32-S3-WROOM-1-N16</td></tr><tr><td>ESP32-S3-WROOM-1-H4</td></tr><tr><td>ESP32-S3-WROOM-1-N4R8</td></tr><tr><td>ESP32-S3-WROOM-1-N8R8</td></tr><tr><td>ESP32-S3-WROOM-1-N16R8</td></tr><tr><td>ESP32-S3-WROOM-1-N4R2</td></tr><tr><td>ESP32-S3-WROOM-1-N8R2</td></tr><tr><td>ESP32-S3-WROOM-1-N16R2</td></tr><tr><td rowspan="6">ESP32-S3-WROOM-1U</td><td>ESP32-S3-WROOM-1U-N4</td></tr><tr><td>ESP32-S3-WROOM-1U-N8</td></tr><tr><td>ESP32-S3-WROOM-1U-N16</td></tr><tr><td>ESP32-S3-WROOM-1U-H4</td></tr><tr><td>ESP32-S3-WROOM-1U-N4R8</td></tr><tr><td>ESP32-S3-WROOM-1U-N8R8</td></tr></table>				Product Name	MPN	ESP32-S3-WROOM-1	ESP32-S3-WROOM-1-N4	ESP32-S3-WROOM-1-N8	ESP32-S3-WROOM-1-N16	ESP32-S3-WROOM-1-H4	ESP32-S3-WROOM-1-N4R8	ESP32-S3-WROOM-1-N8R8	ESP32-S3-WROOM-1-N16R8	ESP32-S3-WROOM-1-N4R2	ESP32-S3-WROOM-1-N8R2	ESP32-S3-WROOM-1-N16R2	ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U-N4	ESP32-S3-WROOM-1U-N8	ESP32-S3-WROOM-1U-N16	ESP32-S3-WROOM-1U-H4	ESP32-S3-WROOM-1U-N4R8	ESP32-S3-WROOM-1U-N8R8
Product Name	MPN																						
ESP32-S3-WROOM-1	ESP32-S3-WROOM-1-N4																						
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	ESP32-S3-WROOM-1-H4																						
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	ESP32-S3-WROOM-1-N16R8																						
	ESP32-S3-WROOM-1-N4R2																						
	ESP32-S3-WROOM-1-N8R2																						
	ESP32-S3-WROOM-1-N16R2																						
ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U-N4																						
	ESP32-S3-WROOM-1U-N8																						
	ESP32-S3-WROOM-1U-N16																						
	ESP32-S3-WROOM-1U-H4																						
	ESP32-S3-WROOM-1U-N4R8																						
	ESP32-S3-WROOM-1U-N8R8																						

	ESP32-S3-WROOM-1U-N16R8
	ESP32-S3-WROOM-1U-N4R2
	ESP32-S3-WROOM-1U-N8R2
	ESP32-S3-WROOM-1U-N16R2
ESP32-S3-MINI-1	ESP32-S3-MINI-1-N8
	ESP32-S3-MINI-1-H4R2
	ESP32-S3-MINI-1-N4R2
ESP32-S3-MINI-1U	ESP32-S3-MINI-1U-N8
ESP32-S3-WROOM-2	ESP32-S3-WROOM-2-N16R8V
	ESP32-S3-WROOM-2-N32R8V

3) 开发板产品/ Develop Board Products:

Product Name	MPN
ESP32-S3-DevKitC-1	ESP32-S3-DevKitC-1-N8
	ESP32-S3-DevKitC-1-N16
	ESP32-S3-DevKitC-1-N8R8
	ESP32-S3-DevKitC-1-N8R2
	ESP32-S3-DevKitC-1-N16R8V
	ESP32-S3-DevKitC-1-N32R8V
	ESP32-S3-DevKitC-1U-N8
	ESP32-S3-DevKitC-1U-N8R8
	ESP32-S3-DevKitC-1U-N8R2
	ESP32-S3-DevKitC-1U-N16R8V
	ESP32-S3-DevKitC-1U-N32R8V
ESP32-S3-DevKitM-1	ESP32-S3-DevKitM-1-N8
ESP32-S3-USB-OTG	ESP32-S3-USB-OTG
ESP32-S3-Korvo-1	ESP32-S3-Korvo-1
ESP32-S3-Korvo-2	ESP32-S3-Korvo-2
ESP32-S3-Korvo-2-LCD	ESP32-S3-Korvo-2-LCD
ESP32-S3-EYE	ESP32-S3-EYE
ESP32-S3-BOX	ESP32-S3-BOX
ESP32-S3-BOX-Lite	ESP32-S3-BOX-Lite

2. 变更原因/ Reason for Change

为提升 ESP32-S3 系列芯片的生产效率，对 ESP32-S3 系列芯片进行优化。段落 1 中列出的模组和开发板产品的主芯片为 ESP32-S3 系列芯片，因此相应地发生变更。

Internal optimization of ESP32-S3 series chip to improve the production capacity of ESP32-S3 series chip products. Modules and Development Board Products listed in Para 1 are based on ESP32-S3 series of chips, and thus will change accordingly.

3. 变更描述/ Description of Change

升级 ESP32-S3 系列产品的芯片版本，段落 1 列出的模组中使用的主芯片为 ESP32-S3 系列芯片，因此段落 1 列出的模组和开发板产品也进行相应的更新。

Upgrade the chip revision of ESP32-S3 series of chips. Modules and development board products listed in Para 1 are based on ESP32-S3 series of chips, and thus will change accordingly.

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:

芯片产品通过 eFuse 及产品丝印。

Chip products: Identified by eFuse bits and chip marking.

模组产品通过丝印中的产品规格标识位识别。

Module products: Identified by module marking.

5. 变更影响/ Impact of Change

1) 品质和性能/ Quality & Performance: 无影响/ No impact

2) 交期/ Delivery: 无影响/ No impact

3) 生产料号/ Material Part Numbers (MPN):

客户可以继续使用原有的芯片产品名称下单；

Customers can continue using the existing chip product name to place orders.

段落 1 中列出的模组及开发板产品的 MPN 不变更，客户可以继续使用原有的模组及开发板产品 MPN 进行下单。

There is no change to the MPN of the affected Espressif modules & development board products listed in Para 1. Customers can continue to use existing MPN to place orders.

4) 认证/ Certification: 无影响/ No impact

5) 软件/ IDF:

当前的乐鑫 IDF 版本兼容段落 1 列出的变更后的产品，客户可继续使用现有的软件版本进行变更后产品的生产。

Changed products listed in Para 1 are compatible with the current version of ESP-IDF. Customers can still use the current version.

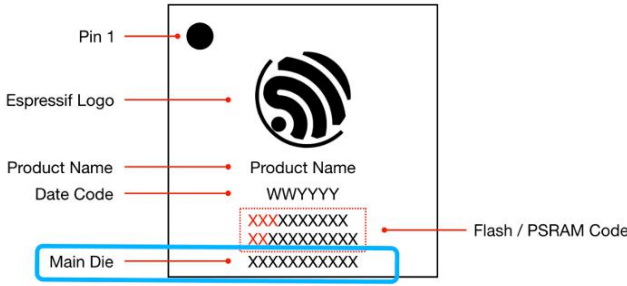
6. 变更前后产品处理/ How to Deal with Products

FIFO

7. 相关报告/ Related Report(s):

- ☒ Related ECN No. ECN-2022-009
- ☒ 射频性能验证/ RF Performance Verification: **Pass**

Appendix I 变更对比/ Change Comparison

No.	项目/ Item	变更前/ Before Change	变更后/ After Change
1	Chip Revision	V001	V002
2	Chip eFuse Information		
	Register Address	Bit Information	Bit Information
	EFUSE_RD_MAC_SPI_SYS_5_REG[25]	0	0
	EFUSE_RD_MAC_SPI_SYS_5_REG[24]	0	0
	EFUSE_RD_MAC_SPI_SYS_5_REG[23]	0	0
	EFUSE_RD_MAC_SPI_SYS_3_REG[20]	0	0
	EFUSE_RD_MAC_SPI_SYS_3_REG[19]	0	1
	EFUSE_RD_MAC_SPI_SYS_3_REG[18]	1	0
3	Chip Marking (Main Die Line)		
		xBxxxxxx	xCxxxxxx
4	Module MPN	No change	
5	Module Marking (Specification Marking Line)		
		M0XXXX	MCXXXX

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: