

ESP32-S3R2、ESP32-D0WDR2-V3 产品升级 Upgrade ESP32-S3R2 and ESP32-D0WDR2-V3 Products									
PCN 编号 PCN No.	PCN20251001	提出日期 Issue Date of PCN	2025/11/28						
变更日期 Proposed Date of Change	2025/12/15	预计变更后产品首次出货日期 Proposed Date of First Shipment After Change	2026/01/30						
PCN 类型 PCN Category	<input type="checkbox"/> 客户需要批准/ Customer Approval Required <input checked="" type="checkbox"/> 客户通知/ Customer Notification								
1. 影响物料编号/ Affected Part Number									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">变更前物料编号 Part Number Before Change</th> <th style="width: 50%;">变更后物料编号 Part Number After Change</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">ESP32-S3R2</td> <td style="text-align: center;">ESP32-S3RH2</td> </tr> <tr> <td style="text-align: center;">ESP32-D0WDR2-V3</td> <td style="text-align: center;">ESP32-D0WDRH2-V3</td> </tr> </tbody> </table>		变更前物料编号 Part Number Before Change	变更后物料编号 Part Number After Change	ESP32-S3R2	ESP32-S3RH2	ESP32-D0WDR2-V3	ESP32-D0WDRH2-V3		
变更前物料编号 Part Number Before Change	变更后物料编号 Part Number After Change								
ESP32-S3R2	ESP32-S3RH2								
ESP32-D0WDR2-V3	ESP32-D0WDRH2-V3								
2. 变更原因/ Reason for Change									
<p>为拓宽段落 1 中列出芯片产品的应用场景，提升其温度规格至 -40~105 °C。</p> <p>To expand the application scope, the chip products listed in Para 1 have been updated with an increased ambient temperature range of -40 to 105 °C.</p>									
3. 变更描述/ Description of Change									
<p>段落 1 中列出产品内置 PSRAM 的温度规格提升，进而使相关芯片适用的环境温度由 -40~85 °C 更新为 -40~105 °C，温度规格更新后，对应的乐鑫产品物料编号亦同步更新。</p> <p>The in-package PSRAM in the products listed in Para 1 now supports a higher ambient temperature, increasing the products' ambient temperature range to -40 to 105 °C, with the Espressif product part number updated accordingly.</p> <p>注/ Note:</p> <p>环境温度：指乐鑫芯片外部的推荐环境温度。</p> <p>Ambient temperature specifies the recommended temperature range of the environment immediately outside an Espressif chip.</p>									
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:

通过物料编号，标签，丝印区分。

Products can be identified by their Part Number, label, and marking.

5. 变更影响/ Impact of Change

1) 品质和性能/ Quality & Performance:

变更后的产品环境温度范围升高到 -40~105 °C。

The updated products now have an increased ambient temperature range of -40 to 105 °C.

2) 交期/ Delivery: 无影响/ No impact

3) 物料编号/ Part Number:

有变更，参见段落 1。

See details in Para 1.

4) 软件/ Software:

此变更对软件无影响。现有 ESP-IDF 可兼容变更后的产品。

This change has no impact on software. The existing ESP-IDF is compatible with the updated products.

5) 认证/ Certification: 无影响/ No impact

6) 技术规格书/ Datasheet:

有变更，参见含变更后产品的[技术规格书](#)。

Please refer to the updated [chip datasheet](#) for detailed changes.

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

FIFO

7. 相关报告/ Related Report(s)

Material Qualification Report

编号 No.	测试项目 Test Item	测试结果 Test Result
1	运行模式测试 Operation Mode Test	Pass
2	Deep-sleep 唤醒测试	Pass

	Wake up from Deep-sleep Test	
3	掉电测试 Powerdown Test	Pass
4	Wi-Fi OTA 测试 Wi-Fi OTA Test	Pass
5	高低温读写测试 High-Low Temp. Read/Write	Pass
6	高温批量读写测试 High Temp. Read/Write (Batch)	Pass

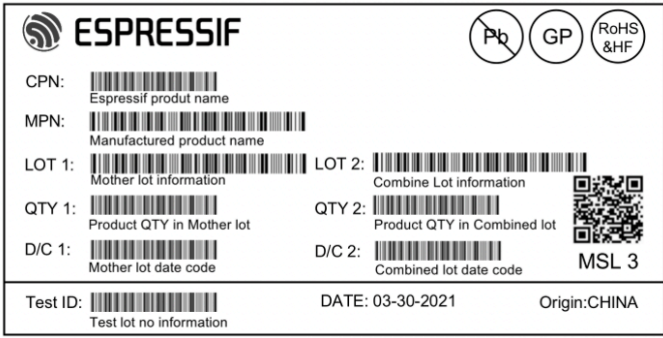


Environment Related Report

更新后的产品符合 RoHS 标准和 REACH 标准。

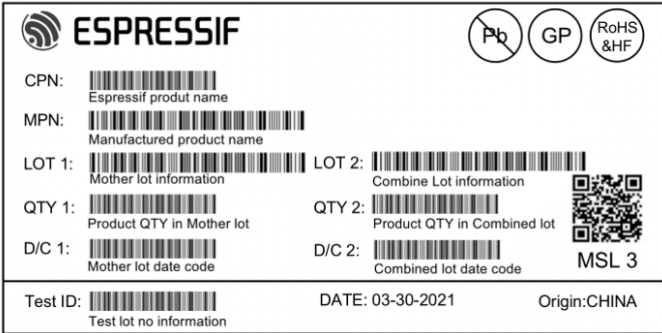


Products after change meet the RoHS and REACH requirements.

Appendix I 变更对比/ Change Comparison

1 ESP32-S3R2 信息/ ESP32-S3R2 Information

No.	项目/ Item	变更前/ Before Change	变更后/ After Change
1	物料编号 Part Number	ESP32-S3R2	ESP32-S3RH2
2	环境温度 Ambient Temperature	-40~85 °C	-40~105 °C
3	产品标签 Product Label Information		
	CPN	ESP32-S3R2	ESP32-S3RH2
4	产品丝印 Chip Marking		
	PSRAM Code (Size & PSRAM Tracking Information)	R2XXXXXXXXXX	RH2XXXXXXXXXX

2 ESP32-D0WDR2-V3 信息/ ESP32-D0WDR2-V3 Information

No.	项目/ Item	变更前/ Before Change	变更后/ After Change
1	物料编号 Part Number	ESP32-D0WDR2-V3	ESP32-D0WDRH2-V3
2	环境温度 Ambient Temperature	-40~85 °C	-40~105 °C
3	产品标签 Product Label Information		
	CPN	ESP32-D0WDR2-V3	ESP32-D0WDRH2-V3
4	产品丝印 Chip Marking		
	Size	R2-V3	RH2-V3

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