

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

部分 ESP8685 系列模组量产 BOM 更新
BOM Change for Several ESP8685-Based Modules

PCN 编号 PCN No.	PCN20240101	提出日期 Issue Date of PCN	2024/01/08
变更日期 Proposed Date of Change	2024/03/08	预计变更后产品首次出货日期 Proposed Date of First Shipment After Change	2024/04/08
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	MPN
ESP8685-WROOM-01	ESP8685-WROOM-01-H2
ESP8685-WROOM-01	ESP8685-WROOM-01-H4
ESP8685-WROOM-03	ESP8685-WROOM-03-H2
ESP8685-WROOM-03	ESP8685-WROOM-03-H4
ESP8685-WROOM-04	ESP8685-WROOM-04-H2
ESP8685-WROOM-04	ESP8685-WROOM-04-H4

2. 变更原因/ Reason for Change

为提升段落 1 中模组产品的抗干扰能力，将模组内 EN 上的电容 C14 (1 μ F) 变更为上件，适应更多应用场景。

To enhance the anti-interference capability of the modules listed in Para 1, capacitor C14 (1 μ F) on the EN pin of the modules will be populated, making it suitable for a wider range of application scenarios.

3. 变更描述/ Description of Change

更新段落 1 中模组产品的 BOM，将 C14 (1 μ F) 变更为上件。

Updated the Bill of Materials (BOM) for modules in Para 1 by populating capacitor C14 (1 μ F).

4. 变更对比/ Change Comparison

请见附录 I：变更对比。

Please refer to Appendix I: Change comparison.

产品识别方式 Identification Method:

通过模组 PW 号识别。

Identify modules before and after change by PW Number.

5. 变更影响/ Impact of Change

1) 品质和性能/ Quality & Performance:

提升产品抗干扰能力。Products after change has better anti-interference capability.

2) 交期/ Delivery: 无影响/ No impact.

3) 生产料号/ Material Part Numbers (MPN): 无影响/ No impact.

4) 认证/ Certification: 无影响/ No impact.

5) 软件/ IDF: 无影响/ No impact.

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

FIFO

7. 相关报告/ Related Report(s):

☒ 射频性能验证/ RF Performance Verification: **Pass**

☒ 可靠性测试/ Reliability Test: **Pass**

☒ Environment Related Report (RoHS / REACH / HF etc.):

更新后的产品符合 RoHS 标准和 REACH 标准。

Product after change meets the RoHS requirements and the REACH requirements.

8. 给使用者的验证建议/ Verification Suggestion To Users

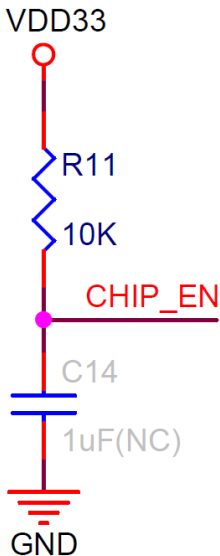
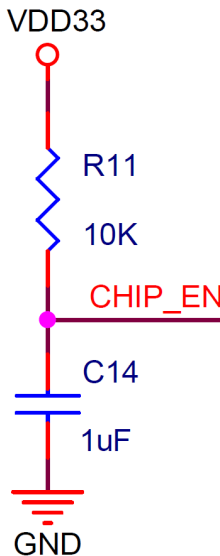
1) 如果客户模组外部 EN 管脚未预留电容，客户可正常使用变更后的产品。

2) 如果客户模组外部 EN 管脚已预留电容，建议客户结合实际应用场景进行验证。可根据模组电源的上电时序和芯片的上电复位时序调整该外部电容（不上件或是电容值调整）。具体 ESP8685 芯片的上电复位时序图可参考《[ESP8685 系列芯片技术规格书](#)》的电源管理章节。

1) If no external capacitor is reserved at the EN pin of the modules, customers can use products after change.

2) If an external capacitor is already reserved at the EN pin of the modules, it is recommended to perform verification based on actual application scenarios. Customers may adjust the capacitor (either remove it or adjust its value) according to the power-up timing of the modules and the power-up and reset sequence timing of the chip. For the specific timing diagram, see [ESP8685 Series Datasheet](#)> Section Power Scheme.

Appendix I 变更对比/ Change Comparison

项目 Item	变更前 Before Change	变更后 After Change
产品名称 Product Name	参见段落 1，无变更 Refer to Para 1, no change	
电容位号 Capacitor Number	C14	C14
电容值 Capacitance	NC	1 μ F
技术规格书/ Datasheet		
技术规格书/ Datasheet	NA	更新章节 5 模组原理图和章节 6 外围设计原理图中相关信息，具体可参见相应模组技术规格书。 Updated information in Chapter 5 Module Schematics and Chapter 6 Peripheral Schematics in the corresponding module datasheet.
技术规格书-模组原理图 更新示例 Module Schematics Update Example on Datasheet		
ESP8685-WROOM-01	NA	ESP8685-WROOM-01 Datasheet
ESP8685-WROOM-03	NA	ESP8685-WROOM-03 Datasheet
ESP8685-WROOM-04	NA	ESP8685-WROOM-04 Datasheet

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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: