

文件编号 Document No.	ESP-00-2-007-03	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	1.1	保存期限 Retention Period	3 年 3 years

ESP-WROOM-02/ESP32-WROOM-32/ESP32-WROVER 屏蔽盖镭射增加二维码
Adding a QR code to the shielding case of ESP-WROOM-02/ESP32-WROOM-32/ESP32-WROVER

PCN 编号 PCN No.	PCN-03-2019120301	提出日期 Issue Date of PCN	2019-12-02
产品名称 Product Name	ESP-WROOM-02 ESP32-WROOM-32 ESP32-WROVER	变更日期 Proposed Date of Change	2019-12-05
封装类型/尺寸 Package Type/Size	Module	首次出货日期 Proposed Date of First Shipment	2020-02-20

客户批准/Customer Consent: 需要批准/Approval Required
 通知, 无需批准/Notification, Approval Not Required

变更等级/Classification of Change: 主要变更/Major 轻微变更/Minor




变更原因/Reason for Change:

- 1) 提高模组生产追溯性 Provide enhanced traceability of module production.
- 2) 满足越来越多客户对模组二维码的需求 Meet the increasing requirement for QR codes from more and more customers.

变更描述/Description of Change:

屏蔽盖标签: 变更前无二维码, 变更后增加二维码

The shielding cases of the affected modules do not contain QR code before change, and contain QR code after change.

Before change	After change
 <p>ESPRESSIF ESP-WROOM-02</p> <p>WiFi® CE CCAH16LP1780T2</p> <p>R-CRM-es5-ESP-WROOM-02 [R]206-000519</p> <p>CMIIT ID: 2016DP3252 IC: 21098-ESPWROOM02 FCC ID: 2AC7Z-ESPWROOM02</p> <p>XXXXXXXX XXXXXXXXXX</p> <p>乐鑫信息科技(上海)股份有限公司</p>	 <p>ESPRESSIF ESP-WROOM-02</p> <p>WiFi® CE CCAH16LP1780T2</p> <p>R-CRM-es5-ESP-WROOM-02 [R]206-000519</p> <p>CMIIT ID: 2016DP3252 IC: 21098-ESPWROOM02 FCC ID: 2AC7Z-ESPWROOM02</p> <p>乐鑫信息科技(上海)股份有限公司 XXXXXXXX</p> 

<p align="center">ESPRESSIF ESP32-WROOM-32</p> <p>WiFi® CE CCAH16LP3211T9</p> <p>R-CRM-es5-ESP-WROOM-32 R 211-161007</p> <p>CMIIT ID:2018DP2463 IC:21098-ESPWROOM32 FCC ID:2AC7Z-ESPWROOM32</p> <p align="right">XXXXXX XXXXXXXXXX</p> <p align="center">乐鑫信息科技（上海）股份有限公司</p>	<p align="center">ESPRESSIF ESP32-WROOM-32</p> <p>WiFi® CE CCAH16LP3211T9</p> <p>R-CRM-es5-ESP-WROOM-32 R 211-161007</p> <p>FCC ID:2AC7Z-ESPWROOM32 IC:21098-ESPWROOM32 CMIIT ID:2018DP2463</p> <p>乐鑫信息科技（上海）股份有限公司</p> <p align="right">XXXXXX</p> 
<p align="center">ESPRESSIF ESP32-WROVER</p> <p>WiFi® CE R 211-180613</p> <p>FCC ID:2AC7Z-ESP32WROVER</p> <p>CMIIT ID: 2017DP3657</p> <p align="right">XXXXXX XXXXXXXXXX</p> <p align="center">乐鑫信息科技（上海）股份有限公司</p>	<p align="center">ESPRESSIF ESP32-WROVER</p> <p>WiFi® CE R 211-180613</p> <p>FCC ID:2AC7Z-ESP32WROVER</p> <p>CMIIT ID: 2017DP3657</p> <p>乐鑫信息科技（上海）股份有限公司</p> <p align="right">XXXXXX</p> 

变更影响/Impact of Change:

增加模组追溯性，给有需求的客户提供 MAC 地址

The traceability for modules is enhanced. Information of customized MAC addresses can be included in the QR code (provided on request).

变更识别方式/ Change Identification Method:

变更前：屏蔽盖无二维码

Before change: no QR code on the shielding case of the modules;

变更后：屏蔽盖增加二维码，二维码内容：Fab code(2 位)+Date code(4 位)+MAC address (12 位)

After change: QR codes are added to the shielding case of the modules. The information contained in the QR code consists of Fab code (2 bits) + Date code (4 bits) + MAC address (12 bits).

变更前后产品处理:/How to Deal with Products:

FIFO

相关报告/Report(s) Attached:

Related ECN No.:

Reliability Report or Plan:

- | | |
|---|--|
| <input type="checkbox"/> Function Test Report: | |
| <input type="checkbox"/> RoHS/HF Test Report: | |
| <input type="checkbox"/> Other Reports (Pls specify): | |

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

客户须按照如下要求给予 Espressif PCN 反馈：

Customers are required to respond to Espressif, according to the following guidelines, and confirm receipt of the PCN:

主要变更/For Major Changes:

- a) 客户须在乐鑫发出 PCN 后的 30 天内告知已收到 PCN。

Customers should confirm receipt of the PCN within 30 calendar days from the date Espressif sends it to them.

- b) 如客户未在接收到 PCN 后的 30 天内告知已收到，则视为客户接受变更。

If customers do not confirm receipt of the PCN within 30 calendar days, they will be regarded as having accepted the proposed changes.

- c) 客户告知确认收到 PCN 后，如未在 90 天内反馈其他要求，则视为客户接受变更。

After the customers confirm receipt of the PCN, the lack of any additional responses on their part within 90 calendar days constitutes acceptance of the proposed changes.

轻微变更/For Minor Changes:

- a) 如客户未在接收到 PCN 后的 7 天内告知已收到，则视为客户接受变更。

If customers do not confirm receipt of the PCN within 7 calendar days, they will be regarded as having accepted the proposed changes.

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:

<input type="checkbox"/> 批准/Approval			
PCN 评审结果/PCN Review Result: <input type="checkbox"/> 不批准/Disapproval			
<input type="checkbox"/> 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:	