

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

模组家族屏蔽盖镭射标签增加温度版本和 flash 大小信息

Add a 6-bit Code on Labels of all Modules to Indicates its Operating Temperature and Flash Size

PCN 编号 PCN No.	PCN-03-2019070101	提出日期 Issue Date of PCN	2019-07-01
产品名称 Product Name	全系列模组 All Modules	变更日期 Proposed Date of Change	2019-07-12
封装类型/尺寸 Package Type/Size	Modules	首次出货日期 Proposed Date of First Shipment	2019-07-15

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:

越来越多客户要求: 模组产品应在标签上明示其工作温度和 flash 大小。

More and more customers request that the module information, especially its operating temperature and flash size, should be presented explicitly on the module itself.

变更描述/Description of Change:

屏蔽盖镭射标签增加: 1) 常温模组和高温模组代码; 2) 代表 flash 大小的数字。

代码为 6 位: XXXXXX, 前 2 位为客户定制预留位; 中间 2 位代表工作温度范围; 后 2 位代表 flash 大小。具体可查询下表:

























Therefore, we have decided to add a 6-bit code on the laser label of the modules' shielding case to indicate its operating temperature and flash size.









This 6-bit code (XXXXXX) consists of three parts: the first two bits for customization based on customers' requirement; then two bits indicating its operating temperature; and another two bits indicating its flash size.

For details, please check the table below:

以下为示例 For examples:

温度范围 Operating Temperature	温度代码 Temperature Code	Flash 大小 Flash Size	Flash 大小代码 Flash Size Code
-40 ~ 65 °C	0C	1 MB (8 Mbit)	08
-40 ~ 85 °C	0H	2 MB (16 Mbit)	16
-40 ~ 105 °C	0S	4 MB (32 Mbit)	32
		8 MB (64 Mbit)	64
		16 MB (128 Mbit)	28

Before Change	After Change
<p>ESPRESSIF ESP-WROOM-02</p>  <p>CMIT ID: 2016DP3252 IC: 21098-ESPWROOM02 FCC ID: 2AC7Z-ESPWROOM02 XXXXXXXX</p> <p>乐鑫科技(上海)股份有限公司</p>	<p>ESPRESSIF ESP-WROOM-02</p>  <p>CMIT ID: 2016DP3252 IC: 21098-ESPWROOM02 FCC ID: 2AC7Z-ESPWROOM02 XXXXXXXX</p> <p>乐鑫科技(上海)股份有限公司</p>
<p>ESPRESSIF ESP-WROOM-02D</p>  <p>CMIT ID: 2017DP7231 IC: 21098-ESPWROOM02D FCC ID: 2AC7Z-ESPWROOM02D</p> <p>乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP-WROOM-02D</p>  <p>CMIT ID: 2017DP7231 IC: 21098-ESPWROOM02D FCC ID: 2AC7Z-ESPWROOM02D</p> <p>乐鑫科技(上海)股份有限公司 XXXXXX</p> 
<p>ESPRESSIF ESP-WROOM-02DC</p>  <p>FCC ID: 2AC7Z-ESPWROOM02DC CMIT ID: 2018DP7200</p> <p>乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP-WROOM-02DC</p>  <p>FCC ID: 2AC7Z-ESPWROOM02DC CMIT ID: 2018DP7200</p> <p>乐鑫科技(上海)股份有限公司 XXXXXX</p> 
<p>ESPRESSIF ESP-WROOM-02U</p>  <p>R-CRM-es5-ESP-WROOM-02U CMIT ID: 2017DP7124 (M) IC: 21098-ESPWROOM02U FCC ID: 2AC7Z-ESPWROOM02U</p> <p>乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP-WROOM-02U</p>  <p>R-CRM-es5-ESP-WROOM-02U CMIT ID: 2017DP7124 (M) IC: 21098-ESPWROOM02U FCC ID: 2AC7Z-ESPWROOM02U</p> <p>乐鑫科技(上海)股份有限公司 XXXXXX</p> 
<p>ESPRESSIF ESP-WROOM-02UC</p>  <p>FCC ID: 2AC7Z-ESPWROOM02UC CMIT ID: 2018DP741104</p> <p>乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP-WROOM-02UC</p>  <p>FCC ID: 2AC7Z-ESPWROOM02UC CMIT ID: 2018DP741104</p> <p>乐鑫科技(上海)股份有限公司 XXXXXX</p> 
<p>ESPRESSIF ESP32-WROOM-32</p>  <p>CMIT ID: 2018DP2463 IC: 21098-ESPWROOM32 FCC ID: 2AC7Z-ESPWROOM32 XXXXXXXX</p> <p>乐鑫科技(上海)股份有限公司</p>	<p>ESPRESSIF ESP32-WROOM-32</p>  <p>CMIT ID: 2018DP2463 IC: 21098-ESPWROOM32 FCC ID: 2AC7Z-ESPWROOM32 XXXXXXXX</p> <p>乐鑫科技(上海)股份有限公司</p>
<p>ESPRESSIF ESP32-WROOM-32D</p>  <p>FCC ID: 2AC7Z-ESPWROOM32D IC: 21098-ESPWROOM32D CMIT ID: 2018DP2467</p> <p>乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP32-WROOM-32D</p>  <p>FCC ID: 2AC7Z-ESPWROOM32D IC: 21098-ESPWROOM32D CMIT ID: 2018DP2467</p> <p>乐鑫科技(上海)股份有限公司 XXXXXX</p> 

<p>ESPRESSIF ESP32-WROOM-32DC</p> <p>RoHS CE</p> <p>FCC ID: 2AC7Z-ESPWROOM32DC CMIIT ID: 2018DP7188 乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP32-WROOM-32DC</p> <p>RoHS CE</p> <p>FCC ID: 2AC7Z-ESPWROOM32DC CMIIT ID: 2018DP7188 乐鑫科技(上海)股份有限公司 XXXXXX</p> 
<p>ESPRESSIF ESP32-WROOM-32U</p> <p>WiFi CE CCCA18LP0900T1</p> <p>R-CRM-445-ESP32WROOM32U IC: 21098-ESPWROOM32U FCC ID: 2AC7Z-ESP32WROOM32U CMIIT ID: 2017DP123 (M) 乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP32-WROOM-32U</p> <p>WiFi CE CCCA18LP0900T1</p> <p>R-CRM-445-ESP32WROOM32U IC: 21098-ESPWROOM32U FCC ID: 2AC7Z-ESP32WROOM32U CMIIT ID: 2017DP123 (M) 乐鑫科技(上海)股份有限公司 XXXXXX</p> 
<p>ESPRESSIF ESP32-WROOM-32UC</p> <p>RoHS</p> <p>CMIIT ID: 2018DP7187(M) 乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP32-WROOM-32UC</p> <p>RoHS</p> <p>CMIIT ID: 2018DP7187(M) 乐鑫科技(上海)股份有限公司 XXXXXX</p> 
<p>ESPRESSIF ESP32-WROVER</p> <p>WiFi CE CCCA18LP0900T1</p> <p>FCC ID: 2AC7Z-ESP32WROVER CMIIT ID: 2017DP3657 XXXXXXXXXXXX 乐鑫科技(上海)股份有限公司</p>	<p>ESPRESSIF ESP32-WROVER</p> <p>WiFi CE CCCA18LP0900T1</p> <p>FCC ID: 2AC7Z-ESP32WROVER CMIIT ID: 2017DP3657 XXXXXXXXXXXX 乐鑫科技(上海)股份有限公司</p>
<p>ESPRESSIF ESP32-WROVER-B</p> <p>CCAP18LP0900T2 CCCA18LP0900T1 211-480419</p> <p>CE R-CRM-445-ESP32WROVERB FCC ID: 2AC7Z-ESP32WROVERB IC: 21098-ESPWROVERB CMIIT ID: 2018DP125 乐鑫科技(上海)股份有限公司</p> 	<p>ESPRESSIF ESP32-WROVER-B</p> <p>CCAP18LP0900T2 CCCA18LP0900T1 211-480419</p> <p>CE R-CRM-445-ESP32WROVERB FCC ID: 2AC7Z-ESP32WROVERB IC: 21098-ESPWROVERB CMIIT ID: 2018DP125 乐鑫科技(上海)股份有限公司 XXXXXX</p> 
<p>等/And so on</p>	<p>等/And so on</p>
<p><u>变更影响/Impact of Change:</u></p>	
<p>NA</p>	
<p><u>变更识别方式/ Change Identification Method:</u></p>	
<p>可以从标签直接区分 By checking the label on modules.</p>	

变更前后产品处理/How to Deal with Products:

FIFO

相关报告/Report(s) Attached:

●Related ECN No.: ECN-02-2019062601

●Reliability Report or Plan: _____

●Function Test Report: _____

●RoHS/HF Test Report: _____

●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:

批准/Approval

PCN 评审结果/PCN Review Result: 不批准/Disapproval

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: