

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	1.1	保存期限	3 年
Document Version		Retention Period	3 years

乐鑫模组包装变更通知					
Packaging Changes to Espressif Modules					
PCN 编号	PCN-03-20190215	提出日期	2019-02-15		
PCN No.		Issue Date of PCN	2019-02-15		
产品名称	Eapropaif Madulaa	变更日期	2019-02-15		
Product Name	Espressif Modules	Proposed Date of Change	2019-02-15		
封装类型/尺寸	Module	首次出货日期	According to FIFO,		
Package Type/Size	Module	Proposed Date of First Shipment	it's expected on		
			March 8, 2019.		
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:

- 乐鑫信息科技(上海)有限公司更名为乐鑫信息科技(上海)股份有限公司,更新包装管理规范中涉及的相关内容,增大字体提升辨识度。The company name has been changed from "ESPRESSIF SYSTEMS (SHANGHAI) PTE., LTD." to "ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD.", so the packaging information had to be updated accordingly. The changed part appears in bigger font for easy recognition.
- 2) 规范现有的包装方式,减少多余标签,依据标准增加 ESD 警示标识、ESD 警示语、MSL 等级标签。Espressif wanted to standardize the existing packaging methods, remove any redundant labels, add an ESD (Electrostatic-Sensitive Device) warning label and an MSL (Moisture Sensitivity Level) label, according to the current market standards.
- 3) 整合之前产品的分类标签,依据多国认证标准规范镭雕标签格式。应国家无线电委员会的要求,增加公司 中文全名。Espressif wanted to integrate the previous product classification labels with the new ones, and standardize the format of the laser-engraving label, according to the multi-national certification standards. Espressif also had to add the company's full name in Chinese, at the request of the State Radio Regulatory Commission of the People's Republic of China.
- 4) 规范 PCB 丝印。Standardized the PCB silkscreen printing.
- 5) 规范产品型号。Standardized the product models.

详情请见后续变更描述。Please, see the following in-depth description of the change to find out all the details.



# 变更描述/Description of Change:

1. 物料标识卡变更前后对比/Material Identification Card before and after the change:



# 2. 合格证/Certificate:

	变更前/E	Before the Cha	ange			变更	后/After the Ch	ange	
*	2m 2m	合格证	23 mm				合格证		
50 mm	机型:	ESP-WROOM	M-02			机型:	ESP-WROO	M-02	
< 7 m	→ 状态:	PASS			状态:	PASS			
	数量:	650 PCS	QA :	30 mm		数量:	650 PCS	QA:	
	日期:	2017-09-27	35 mm	→		日期:	2019-01-01		
	Errer								
L	Y				变更字位	体,增加新	摔识度。 <b>Change</b>	ed the fon	t size for
					easy re	cognition			

# 3. 包装方式变更/Package labeling before and after the change:







4. 真空包装/Vacuum labeling before and after the change:





#### 5. 包装方式/Packaging:



6. 出货检验报告将从原有的中文版本变更为中英文对照版本。

The shipment inspection report will be changed from the current monolingual (Chinese-only) version to a bilingual version (Chinese and English).



# 7. 型号标签/Model Label:

## 7.1: ESP-WROOM-02



# 7.2 ESP32-WROOM-32

变更前/Before the Change	变更后/After the Change		
CONTRIDE201802483 CC ID:20C72-ESPWROOM32 CC ID:20C72	CENTERSESSIF ESP32-WROOM-32 WTEN CE CCAHIGLP3211T9 CE CCCAHIGLP3211T9 CE RCMH-85-ESP-WROOM32 CE ID:211-161007 CMIT ID:2018DP2463 IC:ID:2ACT2:ESPWROOM32 TC:ID:2ACT2:ESPWROOM32 TC:ID:2ACT		
	<ul> <li>XXXXXXXXXX (10 位):用于标记客户 定制,固件版本。XXXXXXXXXX (10 digits): added a 10-digit number to indicate the customer customization and firmware version of the product.</li> </ul>		



7.3 ESP32-WROVER (1)



变更后/After the Change CSPRESSIF ESP32-WROVER WFFI® (€ € € ℝ 211-180613 FCC ID:2AC7Z-ESP32WROVER CMIIT ID: 2017DP3657 X0000000X 乐鑫信息科技(上海)股份有限公司

- 增加公司变更后的中文全名。Added the full name of the company in Chinese.
- 补充认证 ID。Added the certification ID.

# 7.4 ESP32-WROVER-B (IB)

	变更后/After the Change		
ESPRESSIF         ESP32-WROVER-B         Image: CCAP18LP092012         Image: CCAP18LP092	<ul> <li>€SPR€SSIF</li> <li>ESP32-WROVER-B</li> <li>€CCAP18LP0920T2</li> <li>€R 211-180419</li> <li>€ € € R-CRM-es5-ESP32WROVERB</li> <li>IC21099-ESPWROVERB</li> <li>IC21099-ESPWROVERB</li> <li>CMT0F: 2018P93125</li> <li>乐盘信息科技(上海)</li> <li>野蛮首節中文全名。Added the full name of the company in Chinese.</li> <li>QR code 定义不变。The definition of the QR code remains unchanged.</li> </ul>		



#### 7.5 ESP8089M16

变更后/After the Change		
<ul> <li>CSPRCSSIF</li> <li>ESP8089M16</li> <li>乐盘信息科技(上海) 股份有限公司</li> <li>CMIIT ID: 2018DP1957 (M) FCC ID: 2AC7Z-ESP8089M16</li> <li>增加变更后的中文全名。Added the full name of the company in Chinese.</li> <li>QR code 定义不变。The definition of the QR code remains unchanged.</li> </ul>		

#### 7.6 ESP-WROOM-02D

变更前/Before the Change	变更后/After the Change		
ESPRESSIF         ESP-WROOM-02D         Image: Contract of the charge         Image: Contremode         Image: Contrem	<ul> <li>€SPR€SSIF ESP-WROOM-02D</li> <li>€ € € € € € € € € € € € € € € € € € €</li></ul>		
	ID. ● QR code 内容变更为: XX(两位预留位) +D/C(4 位)+ <u>MAC 地址(12 位)</u> The content of the QR code is changed to: XX (two reserved digits) +D/C (4 digits) + MAC address (12 digits).		



## 7.7 ESP-WROOM-02U



#### 7.8 ESP32-WROOM-32D

变更前/Before the Change	变更后/After the Change	
ESPRESSIF         ESP32-WROOM-32D         Image: Contract Sector Contract S	<ul> <li>CSPRESSIF ESP32-WROOM-32D</li> <li>CFC</li> <li>CCAHIBLP020117</li> <li>CRCRM-685-ESPWROOM32D</li> <li>CCID2AC72-ESPWROOM32D</li> <li>MAC2 address (12 digits).</li> </ul>	



### 7.9 ESP32-WROOM-32U



# 7.10 ESP32-SOLO-1

变更前/Before the Change	变更后/After the Change	
ESPRESSIF ESP32-SOLO-1 C CCAPIBLP0040T1 C CCAPIBLP0040T1 CC ID:2AC7Z-ESP32SOLO1 IC:21088-ESP32SOLO1 CMIIT ID:2018DP1904 CONTROLOGIENTION	<ul> <li>€SPR€SSIF ESP32-SOLO-1</li> <li>♥ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</li></ul>	



	+D/C(4 位)+ <mark>MAC 地址(12 位)</mark>				
	The content of the QR code is changed				
	to: XX (two reserved digits) +D/C (4				
	digits) + MAC address (12 digits).				
7.11 ESP32-PICO-KIT					
变更前/Before the Change	变更后/After the Change				
WIFI) ESP32-PICO-KIT	ESPRESSIF				
ESPRESSIF	ESP32-PICO-KIT				
	<b>CE R</b> 211-181224				
ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD					
FCC ID:2AC7Z-ESP32PICOKIT	FCC ID: 2AC7Z-ESP32PICOKIT ESPRESSIF SYSTEMS (SHANGHAI) CO.,LTD.				
	● 更新变更后的公司英文全名 Updated the				
	full name of the company in English.				
	● 补充认证 ID。Added the certification ID.				
<u>变更影响/Impact of Change:</u>					
1) 外观 Product appearance					
2)交付 Delivery					
<u>变更识别方式/ Change Identification Method:</u>					
外观检查 Appearance check					
变更前后产品处理/:How to Deal with Products:					
FIFO 方式,平稳过渡到新的包装规范中。工厂需要一定的备	料和切换时间, 该变更需要逐步切换。				
The FIFO (first-in, first-out) method is adopted to ensure a s	mooth transition to the new packaging				
specifications. The factory needs time to prepare the materi	als for the packaging changes which should,				
therefore, be implemented on a step-by-step basis.					



相关报告/Report(s) Attached:	
☑Related ECN No.:	E2019021501
□Reliability Report or Plan:	N/A; without design changes
□Function Test Report:	N/A; without design changes
□RoHS/HF Test Report:	N/A; without material changes
□Other Reports (Pls specify):	N/A

#### 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<u>乐鑫订阅系统</u>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 <u>here</u>.

# 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 天内告知己收到,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 天内告知己收到,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						
Custome	er Approval/Acknow	ledgement 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		公司代表人职责				
Representative's Name:		Representative's Job Title:				
公司代表人签名		日期				
Representative's Signature: Date:						