

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	1.3	保存期限	5 年
Document Version		Retention Period	5 years

引入 GD25Q128ESIG 作为 ESP32 系列模组的备选 16 MB flash 物料					
Introduction of GD25Q128ESIG as alternative 16 MB flash source for ESP32 Series of Modules					
PCN 编号	PCN-2021-007	提出日期	2021/04/21		
PCN No.		Issue Date of PCN			
亦軍口畑		首次出货日期			
变更日期	2021/06/12	Proposed Date of First	2021/07/20		
Proposed Date of Change		Shipment			
DON 米刊 / DON Cotocom/	☑ 客户需要批准/Cus	tomer Approval Required			
PCN 类型 / PCN Category	□客户通知/Customer Notification				
1. 影响产品名称/Affected Product	Name				
ESP32-WROOM-32D(M113DH	12800PH3Q0), ESP32-	WROOM-32D(M113DH2800PH3	Q1)		
ESP32-WROVER-B(M213DH2864PH3Q0), ESP32-WROVER-B(M213DH2864PH3Q1)					
ESP32-WROVER-E(M213EH2864PH3Q0), ESP32-WROVER-E(M213EH2864PH3Q1)					
ESP32-WROVER-IE(M213EH2864UH3Q0), ESP32-WROVER-IE(M213EH2864UH3Q1)					
ESP32-WROOM-32E(M113EH2800PH3Q0), ESP32-WROOM-32E(M113EH2800PH3Q1)					
ESP32-WROOM-32UE(M113EH2800UH3Q0), ESP32-WROOM-32UE(M113EH2800UH3Q1)					
2. 变更原因/Reason for Change					
目前,我司使用的北京兆易创新科技股份有限公司("GD")供应 GD25QXXC 系列产品的生产工艺为					
65nm,GD 优化生产工艺为 55nm Flash 生产工艺,产品系列为 GD25QXXE。					
为提高供应稳定性,乐鑫完成了	"北京兆易创新科技股份	有限公司("GD")供应的料号	为 GD25Q128ESIG		
的 flash 的 QVL 物料验证测试并通过,因此决定引入该 flash 作为段落 1 列出模组产品的备选物料。			品的备选物料。		
Recently, GigaDevice Semiconductor Inc. (GD), Espressif's supplier for GD25QXXC series of flash (which			eries of flash (which		
uses the 65nm process techno	logy), has launched GE	025QXXE series of flash (which u	uses the more		
advanced 55nm process techn	ology).				
Under this background, to ensure a robust and diversified module supply, Espressif has qualified flash Part					
Number: GD25Q128ESIG provided by GigaDevice Semiconductor Inc.(GD) as the new alternative source					
for Espressif modules listed in Para 1.					
3. 变更描述/Description of Change					
引入料号为 GD25Q128ESIG 的 3.3V, 16 MB, -40℃ ~85℃ flash 作为乐鑫 ESP32 系列模组的备选物					
料。					
Introducing the 3.3V, 16 MB, -40 $^\circ\!$					
the Espressif modules listed in Para1.					

4. 变更对比/Change Comparison

请见附录 I: 变更信息			
Please refer to Appendix I: Change Information			
5. 变更影响/Impact of Change	5. 变更影响/Impact of Change		
1) 品质和性能/ Quality & Performance:			
料号为 GD25Q128ESIG 的 flash 已经通过了物料验证测试,乐鑫确认该 flash 的品质和性能满足乐鑫的要求,且段落1列出的模组在此次变更后有同样的品质和性能。			
This flash (Part Number: GD25	This flash (Part Number: GD25Q128ESIG) has passed the material qualification test. Espressif confirms the		
quality and performance of this	flash fully meet Espressif's requirements, and the quality and performance of		
modules listed in Para1 are not	t affected by using this flash.		
2) 交期/Delivery:			
对于段落 1 列出模组产品的交期没有影响。同时为乐鑫的模组产品引入新的 flash 物料能够增加供应链的多 样性。			
The delivery of the affected modules listed in Para 1 will not be affected. The introduction of a second flash			
source for the modules will improve the robustness of their supply chain.			
3) 生产料号/Material Part Numbers (MPN):			
对于段落 1 列出模组产品的 M	PN 无影响,客户可以使用原 MPN 进行下单。		
There is no change to the MPN of the affected modules listed in Para 1. Customers can use the same MPN			
when placing orders.	when placing orders.		
4) 认证/Certification:			
该变更对 Wifi 性能没有影响,	因此对己有 Wifi 认证的有效性没有影响。		
This change does not affect the	e Wi-Fi performance of the affected modules. Therefore, the existing Wi-Fi		
certifications of the affected mo	odules are also not affected.		
5) 其他/Others:			
NA			
<u>6. 变更前后产品处理</u> /How to Dea	I with Products		
FIFO			
7. 相关报告/Report(s) Attached:			
☑Related ECN No.	ECN-2021-005		
☑Material Qualification Report	#35024 GD25Q128ESIG 在 ESP32 平台验证报告		
□Performance Test Report			
□Reliability Test Report			
☑Environment Related Report			
(RoHS / REACH / HF etc.) GD25Q128ESIG Environment Compliance Information			
□Other Reports (Pls specify)			



Appendix I 变更信息/Change Information

项目/Item	变更后/ Information After Change
1. Flash Part Number	Add GD25Q128ESIG
2. Spec	
1) Flash Operating Voltage	2.7V ~ 3.6V, which covers the operating voltage of the affected modules (3.0V \sim 3.6V), thus will not introduce any impact
2) Typical Power Supply Voltage	No Changes
3) Flash Capacity	No Changes
4) Flash Temperature Range	No Changes
5) Product Name/MPN	No Changes



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

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 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 Resul	 □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:					