

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

导入 GD25Q64ESIG 作为 ESP3-S3 系列模组的备选 8 MB flash 物料 Introduction of GD25Q64ESIG as Alternative 8 MB Flash Source for ESP32-S3 Series of				
	Mod	ules		
PCN 编号	PCN20230102	提出日期	2023/01/13	
PCN No.	PCN20230102	Issue Date of PCN		
		预计变更后产品首次出		
变更日期		货日期		
Proposed Date of 2023/02/01		Proposed Date of First	2023/02/13	
Change		Shipment After		
		Change		
PCN 类型 / PCN	☑客户需要批准/ Customer Approval Required			
Category	gory □客户通知/ Customer Notification			

1. 影响产品名称/ Affected Product Name

1) 模组产品:

Product Name	Product MPN
ESP32-S3-WROOM-1	ESP32-S3-WROOM-1-N8
ESP32-S3-WROOM-1	ESP32-S3-WROOM-1-N8R8
ESP32-S3-WROOM-1	ESP32-S3-WROOM-1-N8R2
ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U-N8
ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U-N8R8
ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U-N8R2

2) 开发板产品:

Product Name	Product MPN	
ESP32-S3-DevKitC-1	ESP32-S3-DevKitC-1-N8	
ESP32-S3-DevKitC-1	ESP32-S3-DevKitC-1-N8R2	
ESP32-S3-DevKitC-1	ESP32-S3-DevKitC-1-N8R2	
ESP32-S3-DevKitC-1U	ESP32-S3-DevKitC-1U-N8	
ESP32-S3-DevKitC-1U	ESP32-S3-DevKitC-1U-N8R2	
ESP32-S3-DevKitC-1U	ESP32-S3-DevKitC-1U-N8R2	
ESP32-S3-EYE	ESP32-S3-EYE	

2. 变更原因/ Reason for Change

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为提高供应稳定性, 乐鑫完成了料号为 GD25Q64ESIG 的 flash 的物料验证测试, 测试通过, 因此决定导入该 flash 作为段落 1 列出模组产品的备选物料。段落 1 中列出的开发板产品使用的为 ESP32-S3 系列模组, 因此相应地发生变更。

To ensure a robust and diversified module supply, Espressif has qualified flash Part Number:

GD25Q64ESIG as the new alternative source for Espressif modules listed in Para 1.

Development board products listed in Para 1 are based on ESP32-S3 series of modules, and thus will change accordingly.

3. 变更描述/ Description of Change

导入料号为 GD25Q64ESIG 的 flash 作为乐鑫 ESP32-S3 系列 8MB, -40℃ ~ 85℃模组的备选 flash 物料。

Introducing the flash, Part Number: GD25Q64ESIG as an alternative source for the Espressif modules listed in Para1.

4. 变更对比/ Change Comparison

请见附录 I: 变更对比。

Please refer to Appendix I: Change comparison.

5. 变更影响/ Impact of Change

1) 品质和性能/ Quality & Performance:

料号为 GD25Q64ESIG 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。

Flash Part Number GD25Q64ESIG has completed qualification test. Espressif confirms it fully meets the Espressif's requirements for quality and performance.

- 2) 交期/ Delivery: 无影响/ No impact
- 3) 生产料号/ Material Part Numbers (MPN):

如采购段落 1 中列出的产品,可使用原名称下单。

If customer purchases the product listed in para 1, please place an order with the exist product name.

4) 认证/ Certification:

产品性能和变更前一致, 保持原有认证。

Product performance remains the same and original certification remains valid.

5) 软件/IDF:

当前的乐鑫 IDF 版本兼容段落 1 列出的变更后的产品, 客户可继续使用现有的软件版本进行变更后产品的生产。

Changed products listed in Para 1 are compatible with the current version of ESP-IDF.

Customers can still use the current version.

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

FIFO

7. 相关报告/ Related Report(s):

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☑Related ECN No. ECN-2023-002

☑物料验证信息/ Material Qualification Information:

编号 No.	测试项目 Test Item	测试结果 Test Result
1	运行模式测试 Operation Mode Test	Pass
2	Deep Sleep 唤醒测试 Wake up from Deep Sleep Test	Pass
3	掉电测试 Powerdown Test	Pass
4	模拟常规 OTA 测试 Simulated General OTA Test	Pass
5	高低温读写测试 High-Low Temp. Read/Write	Pass
6	高温批量读写测试 High Temp. Read/Write (Batch)	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

建议客户结合实际应用场景进行验证。

Suggest customer can do the verification with practical application scenarios.

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Appendix I 变更对比/ Change Comparison

Item	变更前	变更后	
item	Before Change	After Change	
Flash Part Number	XM25QH64CHIQT08S	Add GD25Q64ESIG	
Product Name/ MPN (No Changes)	See Module List in Para 1	See Module List in Para 1	
	2.3V~3.6V	2.7V~3.6V	
Flash Operating Voltage	All the affected modules should work at 3.0V ~ 3.6V, so all types of flash meet the		
	requirements.		
Module Typical Power Supply	3.3V	3.3V	
Voltage (No Changes)	3.3 v		
Flash Capacity	8 MB	8 MB	
(No Changes)	O INID	OWB	
Flash Temperature Range	-40℃ ~85 ℃	-40℃ ~85 ℃	
(No Changes)	10 0 00 0	.00 00 0	
Sector Erase Time (4KB)	40 ms / 400 ms	45 ms / 300 ms	
(Typ. / Max)	10 1110 / 100 1110	45 ms / 300 ms	
Block Erase Time (32KB)	0.12 s / 0.9 s	0.15 s / 1.2 s	
(Typ. / Max)	0.12 07 0.0 0	0.10 37 1.2 3	
Block Erase Time (64KB)	0.25 s / 1.8 s	0.25 s / 1.6 s	
(Typ. / Max)	0.2007 1.00	0.23 5 / 1.0 5	
Chip Erase Time	25 s / 50 s	25 s / 60 s	
(Typ. / Max)	20 37 00 3		

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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 here.

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		公司代表人职责	
Representative's Name:		Representative's Job Title:	
公司代表人签名 Representative's Signature:		日期 Date:	

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