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|--------------------------|-----------------|--------------------------|--------------------------------------------------|
| 文件编号<br>Document No.     | ESP-00-2-007-03 | 文件名称<br>Document Name    | 产品/工艺变更通知<br>Product/Process Change Notice (PCN) |
| 文件版本<br>Document Version | 1.1             | 保存期限<br>Retention Period | 3 年<br>3 years                                   |

| ESP8266, ESP32, ESP32-S2 模组系列 Flash 料号变更                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |                                           |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|------------|
| Flash Part Number Change for ESP8266, EPS32, ESP32-S2 Modules Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                           |            |
| PCN 编号<br>PCN No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PCN-2020-005                                | 提出日期<br>Issue Date of PCN                 | 2020/05/21 |
| 产品名称<br>Product Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ESP8266 系列模组<br>ESP32 系列模组<br>ESP32-S2 系列模组 | 变更日期<br>Proposed Date of Change           | 2020/05/21 |
| 封装类型/尺寸<br>Package Type/Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Module                                      | 首次出货日期<br>Proposed Date of First Shipment | 2020/06/18 |
| 客户批准/Customer Consent: <input checked="" type="checkbox"/> 需要批准/Approval Required<br><input type="checkbox"/> 通知, 无需批准/Notification, Approval Not Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                           |            |
| 变更等级/Classification of Change: <input checked="" type="checkbox"/> 主要变更/Major <input type="checkbox"/> 轻微变更/Minor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                           |            |
| <u>变更原因/Reason for Change:</u><br><p>乐鑫的供应商, 武汉新芯集成电路制造有限公司 (XMC) 通知乐鑫他们希望停止供应料号为 XM25QH32B 的 32 Mb, 65 nm 工艺 Flash, 并切换至供应料号为 XM25QH32C 的 32 Mb, 50 nm 工艺 Flash。XM25QH32C 经过乐鑫的测试并通过, 因此决定将 XM25QH32C 作为 XM25QH32B 的代替 Flash 用于生产部分 ESP8266, ESP32 和 ESP32-S2 模组。</p> <p>Espressif's vendor, Wuhan Xinxin Semiconductor Manufacturing Co., Ltd. (XMC), has notified Espressif that it intends to discontinue the supply of the 32 Mb Flash, Part Number: XM25QH32B manufactured using 65 nm process and switch over to 32 Mb Flash, Part Number: XM25QH32C manufactured using 50 nm process. Espressif has qualified XM25QH32C as a replacement of XM25QH32B used in some modules belonging to the ESP8266, ESP32, and ESP32-S2 module series.</p> |                                             |                                           |            |
| <u>变更描述/Description of Change:</u><br><p>将 ESP8266EX、ESP32 以及 ESP32-S2 系列模组上的 32Mb Flash 进行升级, Flash 料号由 XM25QH32B 变更为 XM25QH32C。</p> <p>Updating the 32 Mb Flash for ESP8266EX, ESP32 and ESP32-S2 module series. The Flash Part Number changes from XM25QH32B to XM25QH32C.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                           |            |
| <u>影响产品/Impacted Products:</u><br><p>ESP8266、ESP32 和 ESP32-S2 模组系列</p> <p>ESP8266, ESP32 and ESP32-S2 module series</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |                                           |            |

**变更影响/Impact of Change:****品质/Quality:**

XM25QH32C 通过了乐鑫的 QVL 测试。

XM25QH32C passed Espressif's QVL test.

**性能/Performance:**

XM25QH32C 通过了 QVL 测试中的读写性能测试。

XM25QH32C passed read/write performance test evaluated as part of Espressif's QVL test.

**变更识别方式/ Change Identification Method:**

| 变更前 Flash 料号 | 变更后 Flash 料号 |
|--------------|--------------|
| XM25QH32B    | XM25QH32C    |

**变更前后产品处理/How to Deal with Products:**

先进先出。

FIFO.

**相关报告/Report(s) Attached:**

- ☒ Related ECN No.: ECN-2020-016
- ☐ Reliability Report or Plan:
- ☐ Function Test Report:
- ☐ RoHS/HF Test Report:
- ☒ Other Reports (Pls specify): XMC25QH32C QVL test report.pdf

**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](mailto:pcn@espressif.com)。

Please send feedback to [pcn@espressif.com](mailto: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: