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|--------------------------|-----------------|--------------------------|--------------------------------------------------|
| 文件编号<br>Document No.     | ESP-07-2-007-03 | 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 | 1.4             | 保存期限<br>Retention Period | 5 年<br>5 years                                   |

| <b>乐鑫芯片产品包装标签格式变更</b><br><b>Espressif Chip Product Packaging Label Format Change</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
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| PCN 编号<br>PCN No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PCN20230502                                                                                                                                                    | 提出日期<br>Issue Date of PCN                                     | 2023/06/12 |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| 变更日期<br>Proposed Date of Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2023/06/21                                                                                                                                                     | 预计变更后产品首次出货日期<br>Proposed Date of First Shipment After Change | 2023/07/01 |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| PCN 类型 / PCN Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> 客户需要批准/ Customer Approval Required<br><input checked="" type="checkbox"/> 客户通知/ Customer Notification                                 |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| <b>1. 影响产品名称/ Affected Product Name</b><br>乐鑫芯片产品/ Chip products: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 20%;">Product Series</th> <th>Product Name</th> </tr> </thead> <tbody> <tr> <td>ESP8266 Series</td> <td>ESP8266EX, ESP8285N08, ESP8285H08, ESP8285H16, ESP8089</td> </tr> <tr> <td>ESP32 Series</td> <td>ESP32-D0WD, ESP32-S0WD, ESP32-D2WD, ESP32-D0WDQ6, ESP32-D0WD-V3, ESP32-D0WDQ6-V3, ESP32-U4WDH, ESP32-D0WDR2-V3, ESP32-PICO-D4, ESP32-PICO-V3, ESP32-PICO-V3-02</td> </tr> <tr> <td>ESP32-S2 Series</td> <td>ESP32-S2, ESP32-S2FH2, ESP32-S2FH4, ESP32-S2R2, ESP32-S2FN4R2</td> </tr> <tr> <td>ESP32-S3 Series</td> <td>ESP32-S3, ESP32-S3R2, ESP32-S3R8, ESP32-S3R8V, ESP32-S3FN8, ESP32-S3FH4R2</td> </tr> <tr> <td>ESP32-C2 Series</td> <td>ESP8684H2, ESP8684H4</td> </tr> <tr> <td>ESP32-C3 Series</td> <td>ESP32-C3, ESP32-C3FH4, ESP32-C3FN4, ESP32-C3FH4AZ, ESP8685H2, ESP8685H4</td> </tr> <tr> <td>ESP32-C6 Series</td> <td>ESP32-C6, ESP32-C6FH4</td> </tr> <tr> <td>ESP32-H2 Series</td> <td>ESP32-H2FH2, ESP32-H2FH4</td> </tr> </tbody> </table> |                                                                                                                                                                |                                                               |            | Product Series | Product Name | ESP8266 Series | ESP8266EX, ESP8285N08, ESP8285H08, ESP8285H16, ESP8089 | ESP32 Series | ESP32-D0WD, ESP32-S0WD, ESP32-D2WD, ESP32-D0WDQ6, ESP32-D0WD-V3, ESP32-D0WDQ6-V3, ESP32-U4WDH, ESP32-D0WDR2-V3, ESP32-PICO-D4, ESP32-PICO-V3, ESP32-PICO-V3-02 | ESP32-S2 Series | ESP32-S2, ESP32-S2FH2, ESP32-S2FH4, ESP32-S2R2, ESP32-S2FN4R2 | ESP32-S3 Series | ESP32-S3, ESP32-S3R2, ESP32-S3R8, ESP32-S3R8V, ESP32-S3FN8, ESP32-S3FH4R2 | ESP32-C2 Series | ESP8684H2, ESP8684H4 | ESP32-C3 Series | ESP32-C3, ESP32-C3FH4, ESP32-C3FN4, ESP32-C3FH4AZ, ESP8685H2, ESP8685H4 | ESP32-C6 Series | ESP32-C6, ESP32-C6FH4 | ESP32-H2 Series | ESP32-H2FH2, ESP32-H2FH4 |
| Product Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Product Name                                                                                                                                                   |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| ESP8266 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ESP8266EX, ESP8285N08, ESP8285H08, ESP8285H16, ESP8089                                                                                                         |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| ESP32 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ESP32-D0WD, ESP32-S0WD, ESP32-D2WD, ESP32-D0WDQ6, ESP32-D0WD-V3, ESP32-D0WDQ6-V3, ESP32-U4WDH, ESP32-D0WDR2-V3, ESP32-PICO-D4, ESP32-PICO-V3, ESP32-PICO-V3-02 |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| ESP32-S2 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ESP32-S2, ESP32-S2FH2, ESP32-S2FH4, ESP32-S2R2, ESP32-S2FN4R2                                                                                                  |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| ESP32-S3 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ESP32-S3, ESP32-S3R2, ESP32-S3R8, ESP32-S3R8V, ESP32-S3FN8, ESP32-S3FH4R2                                                                                      |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| ESP32-C2 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ESP8684H2, ESP8684H4                                                                                                                                           |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| ESP32-C3 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ESP32-C3, ESP32-C3FH4, ESP32-C3FN4, ESP32-C3FH4AZ, ESP8685H2, ESP8685H4                                                                                        |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| ESP32-C6 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ESP32-C6, ESP32-C6FH4                                                                                                                                          |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| ESP32-H2 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ESP32-H2FH2, ESP32-H2FH4                                                                                                                                       |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| <b>2. 变更原因/ Reason for Change</b><br>优化乐鑫芯片产品标签格式，增加芯片产品的包装品牌标识。<br>To enhance branding identification to the packages of chip products, Espressif will update the labels on both the inner box and outer box of our chip products.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |
| <b>3. 变更描述/ Description of Change</b><br>更新乐鑫芯片产品内箱标签和外箱标签格式，具体包括在内箱包装标签中增加公司品牌标识，将外箱上的环保标识信息整合到外箱标签中等，具体变更信息具体参见附录 I：变更对比。<br>Espressif will update the labels on the inner and outer boxes of Espressif chip products. Specifically, we will add company logo to the inner box label, and incorporate the environmental label information into the outer box label. For details, refer to Appendix I Change Comparison.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                |                                                               |            |                |              |                |                                                        |              |                                                                                                                                                                |                 |                                                               |                 |                                                                           |                 |                      |                 |                                                                         |                 |                       |                 |                          |

**4. 变更对比/ Change Comparison**

可通过包装标签外观进行区分变更前后的标签，见附录 I：变更对比。

Identify by the labels on the inner and outer boxes of chip products. Please refer to Appendix I Change Comparison.

**5. 变更影响/ Impact of Change**

- 1) 品质和性能/ Quality & Performance: 无影响/ No impact.
- 2) 交期/ Delivery: 无影响/ No impact.
- 3) 生产料号/ Material Part Numbers (MPN): 无影响/ No impact.
- 4) 认证/ Certification: 无影响/ No impact.
- 5) 软件/ IDF: 无影响/ No impact.

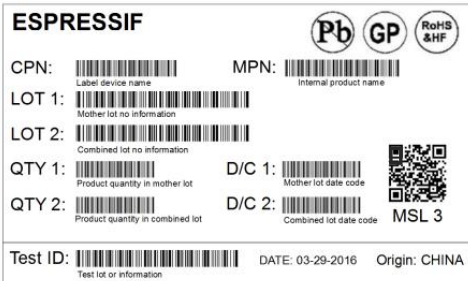
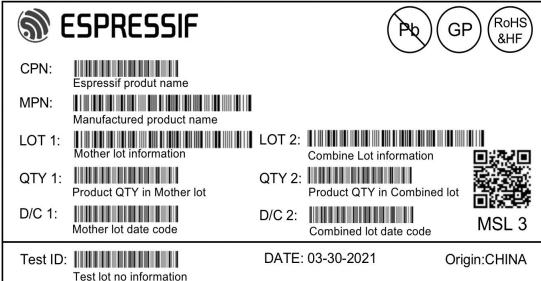
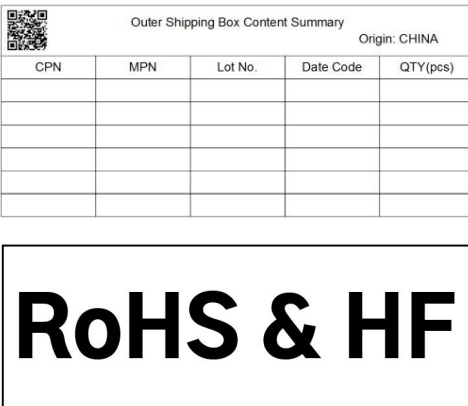
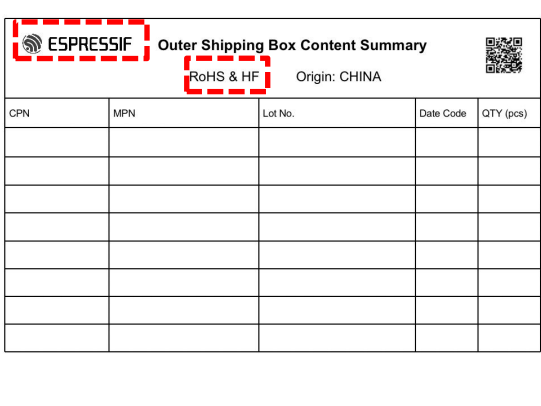
**6. 变更前后产品处理/ How to Deal with Products**

FIFO

**7. 相关报告/ Related Report(s):**

☒ Related ECN No.                      ECN-2023-007

## Appendix I 变更对比/ Change Comparison

| Item            | Before Change                                                                                                                                                                                                                                                                                                      | After Change                                                                                                                                                                                                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inner Box Label |  <p>The label includes Espressif logo, Pb, GP, and RoHS &amp; HF symbols. It contains fields for CPN, MPN, LOT 1, LOT 2, QTY 1, QTY 2, D/C 1, D/C 2, and Test ID. A QR code and MSL 3 marking are also present.</p>               |  <p>The label includes Espressif logo, Pb (crossed out), GP, and RoHS &amp; HF symbols. It contains fields for CPN, MPN, LOT 1, LOT 2, QTY 1, QTY 2, D/C 1, D/C 2, and Test ID. A QR code and MSL 3 marking are also present.</p>               |
| Outer Box Label |  <p>The label features a QR code, 'Outer Shipping Box Content Summary', and 'Origin: CHINA'. It includes a table with columns: CPN, MPN, Lot No., Date Code, and QTY(pcs). A large 'RoHS &amp; HF' marking is at the bottom.</p> |  <p>The label features a QR code, 'Outer Shipping Box Content Summary', and 'Origin: CHINA'. It includes a table with columns: CPN, MPN, Lot No., Date Code, and QTY(pcs). A 'RoHS &amp; HF' marking is highlighted with a red dashed box.</p> |
| Note            |                                                                                                                                                                                                                                                                                                                    |  is not shown on the real product label.                                                                                                                                                                                                       |

**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****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](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:

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

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: