ESP-WROOM-02/ESP32-WROOM-32/ESP32-WROVER 屏蔽盖镭射增加二维码

Adding a QR code to the shielding case of ESP-WROOM-02/ESP32-WROOM-32/ESP32-WROVER

<table>
<thead>
<tr>
<th>PCN No.</th>
<th>Issue Date of PCN</th>
<th>2019-12-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP-WROOM-02</td>
<td>Proposed Date of Change</td>
<td>2019-12-05</td>
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<tr>
<td>ESP32-WROOM-32</td>
<td>Proposed Date of First Shipment</td>
<td>2020-02-20</td>
</tr>
<tr>
<td>ESP32-WROVER</td>
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</tbody>
</table>

客户批准/Customer Consent: 确保无需批准/Approval Not Required

变更等级/Classification of Change: 轻微变更/Minor

变更原因/Reason for Change:
1) 提高模组生产追踪性 Provide enhanced traceability of module production.
2) 满足越来越多客户对模组二维码的需求 Meet the increasing requirement for QR codes from more and more customers.

变更描述/Description of Change:
屏蔽盖标签：变更前无二维码，变更后增加二维码
The shielding cases of the affected modules do not contain QR code before change, and contain QR code after change.

Before change | After change
--- | ---
![ESP-WROOM-02 product image](image1) | ![ESP-WROOM-02 product image](image2)
**Impact of Change:**

The traceability for modules is enhanced. Information of customized MAC addresses can be included in the QR code (provided on request).

**Change Identification Method:**

*Before change:* no QR code on the shielding case of the modules;  
*After change:* QR codes are added to the shielding case of the modules. The information contained in the QR code consists of Fab code (2 bits) + Date code (4 bits) + MAC address (12 bits).

**How to Deal with Products:**

FIFO

**Report(s) Attached:**

- Related ECN No.:  
- Reliability Report or Plan:
Espressif Email Notifications

Email subscription

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](#).

Customer Response Requirements

Customers are required to respond to Espressif, according to the following guidelines, and confirm receipt of the PCN:

Main Changes/For Major Changes:

a) Customers should confirm receipt of the PCN within 30 calendar days from the date Espressif sends it to them.

b) If customers do not confirm receipt of the PCN within 30 calendar days, they will be regarded as having accepted the proposed changes.

c) 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.

Minor Changes/For Minor Changes:

a) If customers do not confirm receipt of the PCN within 7 calendar days, they will be regarded as having accepted the proposed changes.

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

Customer Approval/Acknowledgement and Remarks

Customer’s Company Name:
<table>
<thead>
<tr>
<th>PCN 评审结果/PCN Review Result:</th>
<th>□ 批准/Approval</th>
<th>□ 不批准/Disapproval</th>
<th>□ 需要分析/Further Analysis Required</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>客户意见/Comment:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>公司代表人姓名</th>
<th>公司代表人职责</th>
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<tbody>
<tr>
<td>Representative’s Name:</td>
<td>Representative’s Job Title:</td>
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<table>
<thead>
<tr>
<th>公司代表人签名</th>
<th>日期</th>
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</thead>
<tbody>
<tr>
<td>Representative’s Signature:</td>
<td>Date:</td>
</tr>
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</table>

[Image of the document page]