## ESP32-D0WD 和 ESP32-S0WD 增加封测厂

Add a new Assembly and Test Manufacturing (ATM) plant for ESP32-D0WD and ESP32-S0WD

<table>
<thead>
<tr>
<th>PCN 编号/PCN No.</th>
<th>PCN-03-20180810</th>
<th>提出日期/Issue Date of PCN</th>
<th>2018/08/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>产品名称/Product Name</td>
<td>ESP32-D0WD &amp; ESP32-S0WD</td>
<td>变更日期/Proposed Date of Change</td>
<td>2018/08/20</td>
</tr>
<tr>
<td>封装类型/尺寸/Packaging Type/Size</td>
<td>QFN/5x5</td>
<td>首次出货日期/Proposed Date of First Shipment</td>
<td>2018/11/20</td>
</tr>
<tr>
<td>客户批准/Customer Consent:</td>
<td>☑ 需要批准/Approval Required</td>
<td>□ 通知，无需批准/Notification, Approval Not Required</td>
<td></td>
</tr>
<tr>
<td>变更等级/Change Classification:</td>
<td>☑ 主要变更/Major</td>
<td>□ 轻微变更/Minor</td>
<td></td>
</tr>
</tbody>
</table>

**变更原因/Reason for Change:**

ESP32-D0WD & ESP32-S0WD 市场需求持续增长，为满足市场需求，持续稳定供货，特增加封装测试厂。

In order to meet the growing market demand and ensure a stable supply of ESP32-D0WD and ESP32-S0WD, Espressif will add a new Assembly and Test Manufacturing (ATM) plant to produce the two above-mentioned products.

**当前状况/Current State:**

ESP32-D0WD & ESP32-S0WD 封测厂为 Unisem Cheng Du Co., Ltd

The current Assembly and Test Manufacturing (ATM) plant for the production of ESP32-D0WD and ESP32-S0WD is Unisem Chengdu Co., Ltd.

**变更内容/Proposed Change:**

增加江苏长电科技股份有限公司（JCET）为 ESP32-D0WD & ESP32-S0WD 的封测厂。

Jiangsu Changdian Elec. Tech. (JCET) will be added as a new Assembly and Test Manufacturing (ATM) plant for Espressif to produce ESP32-D0WD & ESP32-S0WD.

**变更对比/Comparison:**

<table>
<thead>
<tr>
<th>Package Outline Diagram (POD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unisem</td>
</tr>
</tbody>
</table>

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### POD Dimensional Ref (Unit: mm)

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Unisem</th>
<th>JCET</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ref</td>
<td>Min</td>
</tr>
<tr>
<td>Total thickness</td>
<td>A</td>
<td>0.800</td>
</tr>
</tbody>
</table>
### Stand off

<table>
<thead>
<tr>
<th></th>
<th>A1</th>
<th>0.000</th>
<th>--</th>
<th>0.050</th>
<th>A1</th>
<th>0</th>
<th>0.02</th>
<th>0.05</th>
</tr>
</thead>
</table>

### Mold thickness

|   | --  | --   | --  | --   | --  | A2  | 0.65 | --   |

### L/F thickness

|   | A3  | 0.203 REF | --  | --   | A3  | 0.203 REF | --  | --   |

### Body size X

|   | D   | 4.950 | 5.000 | 5.050 | D   | 4.95 | 5   | 5.05 |

### Body size Y

|   | E   | 4.950 | 5.000 | 5.050 | E   | 4.95 | 5   | 5.05 |

### EP size X

|   | D2  | 3.650 | 3.700 | 3.750 | D2  | 3.65 | 3.7 | 3.75 |

### EP size Y

|   | E2  | 3.650 | 3.700 | 3.750 | E2  | 3.65 | 3.7 | 3.75 |

### Lead width

|   | b   | 0.130 | 0.180 | 0.230 | b   | 0.13 | 0.18 | 0.23 |

### Lead end width

|   | b1  | 0.070 | 0.120 | 0.170 | --  | --   | --   | --   |

### Lead length

|   | L   | 0.350 | 0.400 | 0.450 | L   | 0.3  | 0.4  | 0.5  |

### Lead pitch

|   | e   | 0.350 BSC | --  | --   | e   | 0.35 BSC | --  | --   |

### Lead tip to exposed pad edge

|   | K   | 0.25 REF | --  | --   | K   | 0.25 REF | --  | --   |

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**Impact of Change:**

1. **Impact of Change:**
   - The appearance of the products will not be exactly the same: the size and shape of chip pins will vary from different plants.
   - Customers using SMT molds that are compatible with chips produced by the newly added plant will not be affected by the change.
   - For customers using SMT molds that are incompatible with chips produced by the newly added plant, please contact Espressif at pcn@espressif.com.

**Method of Identifying Change:**

- The chips produced by different Assembly and Test Manufacturing (ATM) plants can be identified by the shape and size of the chip pins.

**Report(s) Attached:**

- Related ECN No.: ECN-03-20180702

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**Espressif Email Notifications**

Espressif provides email notifications to keep customers updated on technical documentation changes, newsletters, PCN updates and other valuable information only to registered users. Please subscribe [here](mailto:pcn@espressif.com).
## Customer Response Requirements

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

### 主要变更/For Major Changes:

a) 客户须在接收到 PCN 后的 30 天内告知已收到 PCN。
   
   Customers should acknowledge receipt of the PCN within 30 calendar days from the date of receiving the PCN.

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。
   
   Lack of acknowledgment of the PCN within 30 calendar days constitutes acceptance of 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 customers acknowledge receipt of the PCN, lack of additional response on their part within 90 calendar days constitutes acceptance of the 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。
   
   Lack of acknowledgement of the PCN within 7 calendar days constitutes acceptance of the changes.

请反馈至 pcn@espressif.com。

Please feedback to pcn@espressif.com.

## Customer Approval/Acknowledgement and Remarks

### Customer's Company Name:

公司的全名:

Customer’s Company Name:

### PCN 评审结果/PCN Review Result:

- □ 批准/Approval
- □ 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:


