

文件编号	ESP-00-2-007-03	文件名称	产品/工艺变更通知
Document No.		Document Name	Product/Process Change Notice
文件版本 Document Version	1.1	保存期限 Record Retention	3 年/Three years

变更标题/Change Title: ESP32 技术规格书变更 / ESP32 Datasheet Update				
PCN 编号	PCN-02-20180515	提出日期	2018/5/11	
PCN No.		Issue Date of PCN		
产品名称	ESP32-D0WD	变更日期	2018/5/25	
Product Name	ESP32-D0WDQ6	Proposed Date of Change	İ	
	ESP32-S0WD			
	ESP32-D2WD			
,	ESP32 系列模组和开发板/			
	ESP32 modules & boards			
封装类型/尺寸	N/A	首次出货日期	N/A	
Package Type/Size		Date of First Shipment		

客户批准/Customer Consent:□需要批准/Approval Required

■通知,无需批准/Notification, Approval Not Required

变更等级/Change Classification:□主要变更/Major

■轻微变更/Minor

变更原因/Reason for Change:

完善 ESP32 技术规格书。/To improve the ESP32 Datasheet.

变更描述/Description of Change:

- 1. 电压调整/Changes on voltage:
 - 将 VDD3P3_CPU 的电压范围由 2.3-3.6V 改为 1.8-3.6V。/Changed the voltage range of VDD3P3_CPU from 2.3-3.6V to 1.8-3.6V.
 - 原因: 增加适配 1.8V 外设的应用场景。/Reason: ESP32 is suitable for usage scenarios where peripherals operate at 1.8V.
 - 将 VDD3P3_RTC 的电压范围由 1.8-3.6V 改为 2.3-3.6V。/Changed the voltage range of VDD3P3 RTC from 1.8-3.6V to 2.3-3.6V.

原因: 提高应用稳定性。/Reason: This is to improve the application's stability.

- 在表格"直流电气特性"中增加以下参数/Added the following parameters to Table "DC Characteristics (3.3V, 25°C)":
 - 高电平源电流典型值 (I_{OH}, VDD = 3.3V, V_{OH} = 2.64V, PAD_DRIVER = 3) 40 mA

 High-level source current (I_{OH}, VDD = 3.3V, V_{OH} = 2.64V, PAD_DRIVER = 3) with a typical value of 40 mA
 - 低电平灌电流 (IoL, VDD = 3.3V, VoL = 0.495V, PAD_DRIVER = 3) 典型值 28 mA



Low-level sink current (I_{OL}, VDD = 3.3V, V_{OL} = 0.495V, PAD_DRIVER = 3) with a typical value of 28 mA 原因: 新增说明。/ Reason: This is to provide more information on ESP32 specifications.

上拉电阻 (R_{PU}) 典型值 45 kΩ

Pull-up resistor (R_{PU}) with a typical value of 45 k Ω

原因: 新增说明。/Reason: This is to provide more information on ESP32 specifications.

下拉电阻 (R_{PD}) 典型值 45 kΩ

Pull-down resistor (R_{PD}) with a typical value of 45 k Ω

原因: 新增说明。/Reason: This is to provide more information on ESP32 specifications.

3. 删除有关温度传感器的内容。/Remove the content about temperature sensor.

原因:该温度传感器仅适用于基本的内部测试。/Reason: The temperature sensor was evaluated as suitable for basic internal testing only.

变更影响/Impact of Change:

1. 影响产品/Products Impacted:

该变更受影响产品为: ESP32-D0WDQ6, ESP32-D0WD, ESP32-D2WD, ESP32-S0WD。使用以上芯片为主芯片的模组和开发板也受影响。

The products impacted by the change include ESP32-D0WDQ6, ESP32-D0WD, ESP32-D2WD,

ESP32-S0WD, as well as the modules and development boards built around ESP32 chips.

2. 温度传感器内容变更 / Impact of removing the content about temperature sensor:

如客户不使用受影响产品的温度传感器功能,则无影响。

No impact if users do not require the functionality of temperature sensor.

3. 电压调整 / Impact of voltage changes:

如客户对产品引脚电压设置在变更后范围内,则无影响。

No impact if users set the voltage values within the updated range.

变更识别方式/Method of Identifying Change:

产品并无变更。/There are no changes to the device form.

变更前后产品处理/How to deal with products:

若变更项目对客户端实际使用情况造成影响,则建议客户联系 Espressif 确认处理方式,联系方式为pcn@espressif.com。

Should the changes mentioned in this PCN impact the use of the products, users can contact Espressif at pcn@espressif.com.

相关报告/Report(s) Attached:		
□Reliability Report or Plan:	N/A	
□Qualification Report or Plan:	N/A	
□RoHS/HF Test Report:	N/A	
□Function Test Report:	N/A	
□Other Reports (Pls specify):	N/A	



变更人/Change Owner:		签名/Signature:	日期/Date:		
符运生		1/1/24	2018.5.11		
Approved By					
<u>批准人</u>					
R&D Analog	王强	Signature: 7 3 3	Date: 218. 5.17		
R&D Hardware	王栋	Signature:	Date: 308.05.17		
R&D Software	姜江建	Signature:	Date: 20/2, 5.17		
FAE	楽春涛	Signature: 2 1 1	Date: 2018.5.17.		
	戴玮	Signature:	Date: 2018.5.1)		
ATE	王伟	Signature: 3	Date: 2018.5.17		
IC Package	汤上金	Signature: 3 h	Date: γλιδ. 5, 17		
QA	陶袁	Signature: Fa to	Date: >0/8, J. /		
NPI	黄建	Signature: - 黄道	Date: 2018.1.17		
Sales	易雨皓	Signature:	Date: >0(8-5.1)		
Purchasing	吴柏均	Signature:	Date: 7018.5.17		
Marketing	王珏	Signature: 1/2	Date: 1018 . 5 . 18		
CEO	张瑞安	Signature:	Date: 2/6.d.//		

如果无需相关人员批准,请在相应栏位填写"N/A".

Input "N/A" in column(s) where approval is not required.

注:以上信息由 Espressif 填写。

Note: The information above shall be filled in by Espressif.

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 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。
- a) 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。
- b) 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。
- c) 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。
- a) 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.

注:以下信息由客户或 Espressif 销售与客户服务部门填写。				
Note: The information below shall be filled in by customersorEspressif's sales department.				
客户批准/确认信息				
Customer Approval/Acknowledgement and Remarks				
客户公司全称:		N		
Customer's Company Name:				
PCN 评审结果/PCN Study 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		公司代表人职责		
Representative's Name:		Representative's Job Title:		
公司代表人签名		日期		
Representative's Signature:		Date:		