



Product Change Notification: SYST-25CKQJ882

Date:

26-Sep-2024

Product Category:

Wireless Modules

Notification Subject:

Data Sheet - WILCS02IC and WILCS02 Family Data Sheet

Affected CPNs:

SYST-25CKQJ882_Affected_CPN_09262024.pdf

SYST-25CKQJ882_Affected_CPN_09262024.csv

Notification Text:

SYST-25CKQJ882

Microchip has released a new Datasheet for the WILCS02IC and WILCS02 Family Data Sheet of devices. If you are using one of these devices please read the document located at **WILCS02IC and WILCS02 Family Data Sheet**.

Notification Status: Final

Description of Change:

Document Updated document title as “WILCS02 Family Data Sheet”

Introduction

- Removed support for the voltage range of 1.8-3.6V
- Editorial updates

WILCS02IC and WILCS02 Module Features

- Removed hardware based low power modes
- Removed 1.8-3.6V operating voltage for IC and Module

- Editorial updates

WILCS02IC Ordering Information

- Added note for Tray packing
- Updated Figure 1-1 for packaging Tray/Tape & Reel

WILCS02 Module Ordering Information

- Updated ordering code in Table 1-2
- Updated Figure 1-2 for packaging Tray/Tape&Reel
- Added note for Tray packing

Device Overview

- Updated Figure 2-1

Pin Details of WILCS02IC

- Updated Figure 2-2 to top view
- Updated Table 2-1
- Updated Table 2-1 notes

Pin Details of WILCS02 Module

- Updated Figure 2-3
- Updated Table 2-2
- Updated Table 2-2 notes

Basic Connection Requirement

- Updated Figure 2-4
- Removed Configuration Details Table

Power Supply Pin

- Updated Figure 2-5
- Updated content as per the modified Figure 2-5

Device Firmware Update

- Updated Figure 2-7

Interface with Host Microcontroller

- Updated Figure 2-8
- Added Figure 2-9

Master Clear (MCLR) Pin

- Updated Figure 2-6
- Removed note referenced for the previous image

WILCS02 Module Routing Guidelines

- Updated Figure 2-12

External Antennas

- Updated Table 2-4
- Added a note to refer the calibration guide for post calibration steps

WILCS02IC Absolute Maximum Ratings• Updated Table 3-1

Thermal Specifications

- Updated Thermal Operating Conditions
- Updated Recommended Operating Voltages

I/O Pin DC Electrical Specifications

- Updated Table 3-6

WILCS02IC Wi-Fi Current Consumption• Updated Table 3-7

External XTAL POSC 40 MHz AC Electrical Specifications

- Updated Table 3-8

SPI Electrical Specifications• Updated Figure 3-1

- Updated Figure 3-2
- Updated Table 3-9

SDIO Controller AC Timing Specifications• Updated Table 3-10

Power-on Reset AC Electrical Specifications

- Modified the symbol TRST to T(nRST)

Extreme Deep Sleep (XDS) Current Consumption

- Removed this section

WILCS02IC Receiver and Transmitter Characteristics Graphs• Updated first four plots.

Thermal Specifications

- Updated VDDIO voltage range and conditions

Wi-Fi Current Consumption

- Updated Table 3-18

WILCS02 Module Receiver and Transmitter Characteristics Graphs• Updated the plots

WILCS02IC Package Marking• Updated Figure 4-1

WILCS02 Module Packaging Marking

- Added FCC and IC ID details
- Updated Figure 4-2

WILCS02 Module Packaging Dimension

- Updated package dimension

Appendix A: Regulatory Approval

- Updated Great Britain/UKCA to the list [I/O Pin DC Electrical Specifications](#)
- Updated Table 3-6

Appendix A: Regulatory Approval

- Added Regulatory Chapter

Impacts to Data Sheet: See above details.

Reason for Change: To improve productivity.

Change Implementation Status: Complete

Date Document Changes Effective: 26 Sep 2024

NOTE: Please be advised that this is a change to the document only the product has not been changed.

Markings to Distinguish Revised from Unrevised Devices: N/A

Attachments:

WILCS02IC and WILCS02 Family Data Sheet

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