

PROJECT: WFAC2X2

FIRMWARE RELEASE NOTE



| Document Information | |
|--------------------------|----------------------------|
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| Revision | Author | Purpose and Brief Summary of Changes | Date |
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1 INTRODUCTION

1.1 Document Purpose and Scope

This document describes the content of the firmware releases for the WFAC2x2 project, variant Begonia MPW1.

1.2 References

Table 1-1 References

| Doc # | Reference | Name | Date |
|------------------|-----------|--------------------------|---------------|
| 19CAIN01_C06S017 | [UM] | User Manual v1.1 | Dec 10, 2019 |
| 17CAIN09_C06S009 | [AMG] | API Migration Guide v1.0 | Sept 25, 2019 |
| | | | |

1.3 Abbreviations and Definitions

Table 1-2 Abbreviations

| Abbreviation | Meaning |
|--------------|---------|
| | |
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Table 1-3 Definitions

| Definitions | Meaning |
|-------------|---------|
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| | |

2 RELEASE PACKAGE

2.1 Version Identification

| Identifier | Value |
|------------------|----------|
| target | MPW1 |
| firmware version | R0.9.005 |

For this release, the GetVersion command will reply with the following information:

| Identifier | Value |
|------------|-------------|
| hw_major | 01 |
| hw_minor | B0 for MPW1 |
| target_ver | 1 |
| fw_major | 0 |
| fw_minor | 9 |
| build_nr | 5 |

2.2 Package Content

The release package contains the following files:

| File | Description |
|----------------------|-----------------------------------------------|
| WFAC22_01B0_prog.mem | Program memory file, to be loaded by the host |
| WFAC22_01B0_init.mem | Initialization file, to be loaded by the host |

Please follow the load and boot instructions as explained in the [UM].

3 RELEASE CONTENT

3.1 Goal

The main goal of this release is to provide a solution for ticket 6952 (reduce the LB ADC clock from 160MHz to 80MHz). In addition, an improvement was done in RX-IQC.

3.2 Supported Functionality

The table below shows which commands are part of this release, and if there are limitations for the command in this release.

Table 3-1 command overview

| Command | Status |
|--------------------|------------|
| GEN_GetVersion | Functional |
| APP_GetStatus | Functional |
| APP_Sleep | - |
| APP_Activate | Functional |
| APP_Deactivate | Functional |
| APP_GetTemperature | Functional |
| APP_Calibrate | Functional |
| APP_CalResistor | Functional |
| APP_SetResistor | Functional |
| APP_ConfigTrx | Functional |
| APP_ConfigFemCtrl | Functional |
| CLK_SetXo | Functional |
| TRX_Receive | Functional |
| TRX_Transmit | Functional |
| TRX_Stop | Functional |
| TRX_Park | Functional |
| TRX_Prepare | Functional |
| TRX_GetStatus | Functional |
| TRX_SetTestDc | Functional |

4 KNOWN PROBLEMS & LIMITATIONS

None.