

SAF85xx

Release Notes for SAF85xx RFE DfT FW

Rev. 0.1 — 23 April 2021

Release Notes

Document information

Info	Content
Keywords	Radar, SAF85xx, RFE FW, DfT
Abstract	Release notes describing package contents, instructions, open issues, fixes, and limitations.



Revision history

Rev	Date	Description
0.1	23-April-2021	Release Notes for SAF85xx RFE DfT FW Release 0.1.0

Contact information

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Glossary

Abbreviations	Description
RFE	mmW mixed signal Radar Front-End of SAF85xx
A53	ARM Cortex-A53, the Radar processing core of SAF85xx
RFE-M7	ARM Cortex-M7, the core embedded in RFE of SAF85xx
DfT	Discrete Functional Testing

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1. Introduction

This document contains the release notes for the SAF85xx RFE DfT Firmware (FW).

The SAF85xx is a NXP CMOS One Chip Radar IC integrating mixed signal radar transceiver and radar processing SoC.

This document describes the contents, open issues, changes, fixes, and limitations of DfT releases.

The SAF85xx RFE DfT FW Reference Manual is included in the release.

Instructions on how to use the SAF85xx RFE DfT FW can be found in the specific documentation (TBD).

2. Release Contents

Table 1. Release contents

Item	Version
Documentation	
• SAF85xx_RFE_DfT_FW_ReleaseNotes.pdf	0.1
• ATE-Basic-Functions-Description-Doc_v0p5.xlsx	0.5
• readMe.md	0.1
RFE Firmware (RFE-M7)	
• dft.elf debug version	0.1.0
• dft.elf release version	0.1.0
• dft.srec release version	0.1.0
Dft Matlab	0.1.0
• Matlab API	0.1.0
• RFE SW Command Client	0.1.0
• mri	0.1.0
M3SA Simulator	
• M3SAStrxBronze.ex	Bronze
• M3SAMatlab	0.1.0
• M3SASimSupport	0.1.0

Please refer to the corresponding user manuals to use and upgrade to the software and firmware provided by this release.

3. Changes

3.1 SAF85xx RFE Dft FW release 0.1.0

- Implementation of full basic arithmetic array functionality and related functionality for DfT application
- Implementation of Matlab interface to MESA for DfT application
- Implementation of unit-testing via Matlab and MESA for DfT application

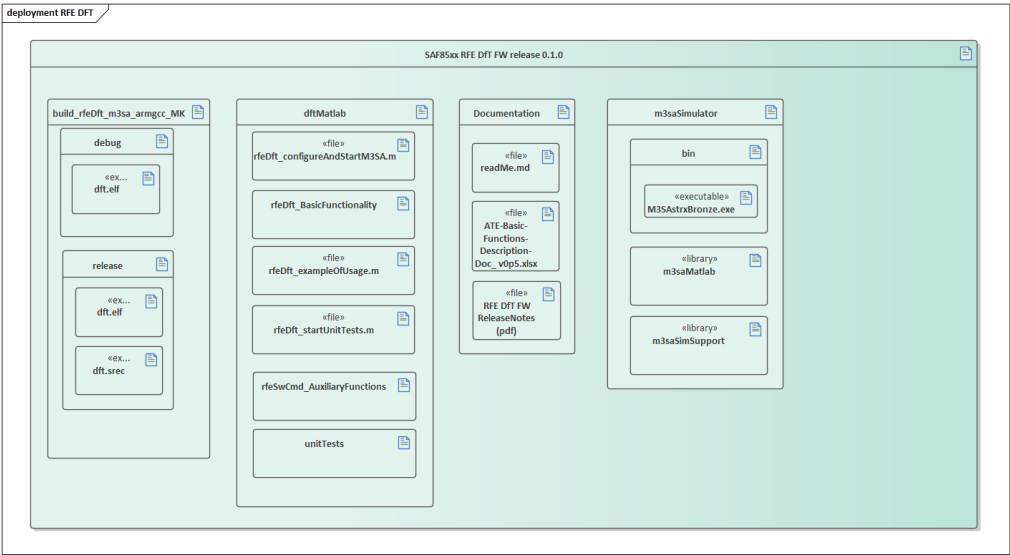


Figure 1 Release Content

3.1.1 Release Structure

Refer to Figure 1 Release Content

4. Limitations

Table 2. Limitations

Item	Description
rfeSwCmdClient_call.m	Current timeout is set to 60s, for future release it will be increased to 120s to avoid connections timeout when displaying results in MESA

5. Known issues

Table 3. Known issues

Item	Description
MESABronze.exe	The simulator has a known issue when using it to debug code. So the debug mode when attaching to mesa process with Eclipse will fail.

6. Compatibility

[Table 4](#) gives an overview of the compatibility of the various software and firmware components. Combinations that are not listed are not supported and may not work.

Table 4. Software and firmware compatibility

RFE FW	RFE API	RFE Driver	RFE Configurator	Other
n/a	0.1.0	n/a		

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