



# Firmware Module Release Note

## ADF7030-1

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### ADF7030-1 Firmware Module Release: OffLineCalibrations

#### ABOUT THIS RELEASE

This document contains information relating to the release V2.1.00R of the ADF7030-1 radio system calibration firmware module.

#### OTHER RELEVANT DOCUMENTATION

Complete specifications for the ADF7030-1 device can be found in the ADF7030-1 data sheet. The *ADF7030-1 Software Reference Manual* is the detailed programming guide for the device.

#### FIRMWARE MODULE RELEASE HISTORY

Firmware Module Name	Firmware Module Version	ADI Reference	Change History
OffLineCalibrations	V2.1.00R	9639	Release
OffLineCalibrations	V1.0.00P	9528	Preliminary

## RELEASE INFORMATION

### FIRMWARE RELEASE CONTENTS

The files contained in this firmware release are described in Table 1.

**Table 1. Firmware Release Contents**

File	Description
ADF7030-1 Radio CAL Firmware Release Info.pdf	This document.
OffLineCalibrations.cfg	The firmware module file associated with this release. Refer to the ADF7030-1 Software Reference Manual for a description of the .cfg file format.

### FIRMWARE MODULE RELEASE INFORMATION

Embedded in each firmware module is the firmware module name and version. This information is described in Table 2.

**Table 2. Firmware Version Information**

Information	Address	Length (bytes)	Description
Firmware Module Name	0x20002fa0	20	Firmware module patch name. It is a ASCII string with a maximum size of 20 characters. Example: "OffLineCalibrations"
Firmware Module Version	0x20002fb4	8	This ASCII encoded string has a format: "VA.B.CDZ", where: <ul style="list-style-type: none"><li>- A, B, C and D are each a number between 0-9</li><li>- Z is a character that is one of "P" or "R". The "P" designation stands for preliminary and indicates a firmware module release that has not been fully qualified. The "R" designation indicates a firmware module that is released and is fully qualified.</li><li>- The firmware release string VA.B.CDZ is only updated if the firmware module has changed for this firmware release. Examples: V1.0.00P : Calibration firmware module at firmware release 1.0.00P</li></ul>
ADI Reference	0x20002ff2	2	Analog Devices reference number for tracking . Least significant byte first. Example: 0x25 0xA7 : Analog Devices reference number = 9639

## **RADIO CALIBRATION**

To ensure that the [ADF7030-1](#) radio performance meets the data sheet specifications, it is necessary to perform a one-time radio system calibration at  $25^{\circ}\text{C} \pm 10^{\circ}\text{C}$ .

The radio system calibration routine is provided as a firmware module, `OffLineCalibrations.cfg`, that the host processor must download to the [ADF7030-1](#) memory.

### **WHEN TO RUN A RADIO SYSTEM CALIBRATION**

For further details on the radio system calibration and when it may be necessary to run this calibration refer to the Calibration section of the [ADF7030-1](#) Datasheet.

### **HOW TO RUN A CALIBRATION**

For further details on how to run a calibration refer to the ADF7030-1 Calibration section in the [ADF7030-1](#) Software Reference Manual.

## NOTES

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