

RFPAL Advanced GUI Installation Guide

UG6837; Rev 0; 12/18

Abstract

This document provides the installation procedure for the RF Power Amplifier Linearization (RFPAL) Advanced GUI for the SC1894 and the SC1905.

Table of Contents

1. Intr	oduction	3
2. Inst	allation Procedure	4
2.1.	With Windows 7	4
2.2.	With Windows 10	8
3. Sta	tup Error Messages	10
3.1.	No Adapter Detected	10
3.2.	No IC Detected	10
3.3.	The Firmware is Not Compatible with This Product Version	11
3.4.	The Wrong f_{MIN} or f_{MAX} is Programmed into the RFPAL EEPROM	11
Revision	History	12

1. Introduction

This document provides the necessary procedures to install the RFPAL Advanced GUI for the SC1894 and the SC1905. Error messages regarding compatibility and the programmed frequency range are also described.

- ▲ It is required to uninstall all previous versions of the RFPAL GUI and all previously installed firmware before installing the latest version of the RFPAL GUI.
- The SC-USB-SPI-Pico adapter is recommended and works with Windows[®] 7 and Windows 10 with USB 2.0. and USB 3.0. The SC-USB-SPI adapter is also supported, but only works with Windows 7 and USB 2.0.
 - a. The SC-USB-SPI-Pico adapter is included in the SC1905 evaluation boards.

Windows is a registered trademark and registered service mark of Microsoft Corporation.

2. Installation Procedure

If this is the first time installing the SC1894/SC1905 Software GUI, perform the following steps:

- 1. Check that the selected USB to SPI adapter is not connected during this procedure.
- 2. Uninstall any previous GUI version and associated firmware.
- 3. Download the SC1894/SC1905 RFPAL Software Package and install the MaximRFPALGUI.exe file.
- 4. The SC-USB-SPI and SC-USB-SPI-Pico adapter drivers are automatically installed with the RFPAL GUI.
- 5. Connect the USB-to-SPI-Pico adapter.
- 6. Power the SC1894 or the SC1905 evaluation board.
- 7. Run the RFPAL GUI.

2.1. With Windows 7

- 1. Run the latest MaximRFPALGUI.exe.
- 2. Click "Run."

Open File - Security Warning				
Do you want to run this file?				
	Name:imRFPALGUISetup3090\MaximF Publisher: <u>Maxim Integrated Products Inc</u> Type: Application From: \\maxim-ic\SanJose\Home\Public	FPALGUI3090.EXE		
<mark>.</mark> Al <u>w</u> a	<u>R</u> un ays ask before opening this file	Cancel		
While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?				

3. Click "Next."



4. Click "Next."

湯 RFPAL GUI - Advanced	- • ×
Select Installation Folder	
The installer will install RFPAL GUI - Advanced to the following folder.	
To install in this folder, click "Next". To install to a different folder, enter it below o	or click "Browse".
Eolder: c:\Program Files (x86)\MaximIntegrated\RFPAL GUI - Advanced\	B <u>r</u> owse Disk Cost
Cancel < <u>B</u> ack	<u>N</u> ext >

5. Click "Next."



6. Click "Install."



7. Click "Install."



8. Select "Install this driver software anyway."

🛛 Wir	Windows Security				
	Don't install this driver software You should check your manufacturer's website for updated driver software for your device.				
	Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.				
	e <u>d</u> etails				

9. Click "Close."

😸 RFPAL GUI - Advanced	x
Installation Complete	
RFPAL GUI - Advanced has been successfully installed.	
Click "Close" to exit.	
Please use Windows Update to check for any critical updates to the .NET Framework.	
Cancel < <u>B</u> ack <u>D</u> ic	ise

2.2. With Windows 10

- 1. Run the latest MaximRFPALGUI.exe
- 2. Click "Next".



3. Click "Next".



4. Click "Next".



5. Click "Close".

🕼 RFPAL GUI - Advanced	-		×
Installation Complete			
RFPAL GUI - Advanced has been successfully installed.			
Click "Close" to exit.			
Please use Windows Update to check for any critical updates to the .NET Framework.			
Crused / Back			lese
Lancei < Back			liose

3. Startup Error Messages

3.1. No Adapter Detected



No adapter is detected by the GUI. Make sure the adapter is properly connected to the PC and that the driver was installed properly. If using the SC-USB-SPI-Pico, check under the Device Manager whether the Maxim USB-to-UART Adapter driver was installed properly.

3.2. No IC Detected

🔞 RFPAL Advanced GUI	
The HW version is invalid. The part might not be	connected to the adapter or it might be powered off.
	ок

The RFPAL GUI is not able to detect the SC1894 or the SC1905 chip. Make sure the adapter is connected to the board properly.

3.3. The Firmware is Not Compatible with This Product Version



This error message is displayed when trying to load the SC1894 firmware into the SC1905 chip or the SC1905 firmware into the SC1894 chip.

3.4. The Wrong f_{MIN} or f_{MAX} is Programmed into the RFPAL EEPROM



Use the Frequency Range pulldown menu to select the correct frequency range. Refer to the SC1894/SC1905 release notes for more information.

Revision History

REVISION	REVISION	DESCRIPTION	PAGES
NUMBER	DATE		CHANGED
0	12/18	Initial release	

©2018 by Maxim Integrated Products, Inc. All rights reserved. Information in this publication concerning the devices, applications, or technology described is intended to suggest possible uses and may be superseded. MAXIM INTEGRATED PRODUCTS, INC. DOES NOT ASSUME LIABILITY FOR OR PROVIDE A REPRESENTATION OF ACCURACY OF THE INFORMATION, DEVICES, OR TECHNOLOGY DESCRIBED IN THIS DOCUMENT. MAXIM ALSO DOES NOT ASSUME LIABILITY FOR INTELLECTUAL PROPERTY INFRINGEMENT RELATED IN ANY MANNER TO USE OF INFORMATION, DEVICES, OR TECHNOLOGY DESCRIBED HEREIN OR OTHERWISE. The information contained within this document has been verified according to the general principles of electrical and mechanical engineering or registered trademarks of Maxim Integrated Products, Inc. All other product or service names are the property of their respective owners.