# R&S®SGU100A
# I/Q Upconverter
# Release Notes
# Firmware Version 5.00.232.76

Subject to change

The firmware of the instrument makes use of several valuable open source software packages. For information, see the "Open Source Acknowledgment" on the user documentation CD-ROM (included in delivery).

The following abbreviations are used throughout this document: R&S® SGU100A is abbreviated as R&S SGU100A.

ROHDE & SCHWARZ

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# 1 Information on the Current Version and History

## 1.1 Version 5.00.232.76

Released: August 2023

**Fixed Issues**

| | |
|---|---|
| **Internal adjustments failed under certain circumstances** | 1171368 |

## 1.2 Version 5.00.232.67

Released: January 2023

**New Functionality**

- Command for querying the standby state :SYSTem:STANdby:STATe?
- Removed SYSTem:HELP:EXPort

**Fixed Issues**

| | |
|---|---|
| Compiler errors when using gcc with flags -Werror and -Wall | 484362 |

**Important:**

**For a firmware update from version 4.30.046.295 or a lower version it is required to update to intermediate version 4.30.046.300 first.**

## 1.3 Version 4.30.46.300

Released: January 2023

Intermediate version for updating from a firmware version lower than 5.xx.xx.xx to a version higher than 5.xx.xx.xx. Does not support any signal generation functions.

Not required if you want to downgrade from a version higher than 5 to a version lower than 5

## 1.4 Version 4.30.046.195

**Released : March 2019**

**New Functionality**

- Increased setting range for the crest factor
- Windows XP no longer supported for SGMA-GUI

**Fixed Issues**

| | |
|---|---|
| Attenuator RF OFF Mode not working | 338395 |
| Bad carrier suppression | 456681 |
| PCIe Connection to SGU via switch not restored after startup | 477556 |
| Rarely occurring wrong attenuator settings | 531486 |
| Unexpected dropouts | 510994 |

**Known Issues**

| | |
|---|---|
| Connector setting unchanged when switching to pulse modulation | 554755 |

## 1.5 Version 3.50.124.74

**Released : November  2017**

**Fixed Issues**

| | |
|---|---|
| Asynchronous mode not yet supported with FastSocket | 16139 |
| Improved internal adjustments | 354225 |

## 1.6   Version 3.20.347.24.1

**Released : April  2017**

**Fixed Issues**

| | |
|---|---|
| ioctl SGS_WAIT_IRQ: Connection timed out | 285644 |

**Known Issues**

| | |
|---|---|
| Asynchronous mode not yet supported with FastSocket | 16139 |

## 1.7   Version 3.20.347.24

**Released : November  2015**

**New Functionality**

- FastSocket remote control
- FW Update of SGU via SGS
- Level offset

**Known Issues**

| | |
|---|---|
| Asynchronous mode not yet supported with FastSocket | 16139 |

## 1.8   Version 3.20.140.60.2

**Released : June  2015**

**New Functionality**

- Support for board IqUpcon40 uW revision 8.0.

## 1.9   Version 3.20.140.60.1

**Released : April  2015**

**New Functionality**

- Improved PCIe communication with SGS
- Improved user guidance in standalone mode

- **Fixed Issues**

| Issues with simultaneous pulse + I/Q modulation | 14440 |
|---|---|

## 1.10  Version 3.18.251.87.4

**Released : December 2014**

**New Functionality**

- Support for IQUpcon40 (40 GHz)

## 1.11  Version 3.18.251.87

**Released : August 2014**

**New Functionality**

- Improved frequency converter

**Fixed Issues**

| Threeway PCI-communication SGS-SGU-Host faulty | 13086 |
|---|---|

## 1.12  Version 3.18.251.37

**Released : May 2014**

**Known Issues**

| Threeway PCI-communication SGS-SGU-Host faulty | 13086 |
|---|---|

## 1.13  Version 3.18.243.06

Released: April 2014

**Initial Release**

# 2 Firmware Update

## 2.1 Update Information

The update procedure requires that the instrument is operational. There is no need to uninstall the current firmware. Instrument settings are preserved during the update, including user data and network settings.

**NOTICE**

If an update to new versions is required for both the R&S SGMA-GUI and the instrument firmware, it is mandatory that the new instrument firmware is installed prior to updating of the R&S SGMA-GUI to the new version.

If a firmware update of a SGS-SGU pair is required update the SGU before updating the SGS.

## 2.2 Installing new instrument firmware

1. Select "SGMA-GUI main panel > Instrument Name > Setup > Maintenance > Operation > Install firmware package".

2. Press "Select Package" and navigate to the directory the new firmware is stored in.

3. Enter the "Security Password". The default password is "123456".

4. Confirm the update with "Accept".

The software transfers the firmware file and automatically starts the update procedure.

During the update, the message "Updating Firmware" is displayed in the Info line.

## 2.3 Installing new SGMA-GUI software

### 2.3.1 Windows

Supported operating systems:
- Windows 10 from version 1607

Administrator rights are necessary for installation and starting SGMA-GUI.

- Uninstall any previous version of SGMA-GUI before installing the new software.
- In Windows Explorer double-click **SGMA-GUI_xxx.exe and follow instructions.**

### 2.3.2   Linux

Copy file **SGMA-GUI-INSTALL_xxx** to your computer. Make the file executable and execute it in a terminal. Follow instructions.

# 3 Customer Support

**Technical support – where and when you need it**

For quick, expert help with any Rohde & Schwarz equipment, contact one of our Customer Support Centers. A team of highly qualified engineers provides telephone support and will work with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz equipment.

**Up-to-date information and upgrades**

To keep your instrument up-to-date and to be informed about new application notes related to your instrument, please send an e-mail to the Customer Support Center stating your instrument and your wish. We will take care that you will get the right information.

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