

R&S®SGU100A

I/Q Upconverter

Release Notes

Firmware Version 4.30.046.195

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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.

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1 Information on the Current Version and History

1.1 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
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1.2 Version 3.50.124.74

Released : November 2017

Fixed Issues

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

1.3 Version 3.20.347.24.1

Released : April 2017

Fixed Issues

ioctl SGS_WAIT_IRQ: Connection timed out	285644
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Known Issues

Asynchronous mode not yet supported with FastSocket	16139
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1.4 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
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1.5 Version 3.20.140.60.2

Released : June 2015

New Functionality

- Support for board IqUpcon40 uW revision 8.0.

1.6 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
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1.7 Version 3.18.251.87.4

Released : December 2014

New Functionality

- Support for IQUpcon40 (40 GHz)

1.8 Version 3.18.251.87

Released : August 2014

New Functionality

- Improved frequency converter

Fixed Issues

Threeway PCI-communication SGS-SGU-Host faulty	13086
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1.9 Version 3.18.251.37

Released : May 2014

Known Issues

Threeway PCI-communication SGS-SGU-Host faulty	13086
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1.10 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 Vista
- Windows 7
- Windows 8
- 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_4.30.046.xx.exe** and follow **instructions**.

2.3.2 Linux

Copy file **SGMA-GUI-INSTALL_4.30.046.xx** 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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