

Release Notes

Revision: 10.0

R&S® RTM2000 Digital Oscilloscope

Firmware Release 06.011

These Release Notes describe the following models and options of the R&S® Digital Oscilloscope:

- R&S® RTM2000 2022 Digital Oscilloscope, order no. 5710.0999.22
- R&S® RTM2000 2024 Digital Oscilloscope, order no. 5710.0999.24
- R&S® RTM2000 2032 Digital Oscilloscope, order no. 5710.0999.32
- R&S® RTM2000 2032 Digital Oscilloscope, order no. 5710.0999.34
- R&S® RTM2000 2052 Digital Oscilloscope, order no. 5710.0999.52
- R&S® RTM2000 2054 Digital Oscilloscope, order no. 5710.0999.54

New Features of V06.011: None

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

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1 Revision History

Date	Rel. Note rev.	Changes
24.04.2013	1.0	First version for RTM20x4 firmware V05.101
29.04.2013	1.1	First version for RTM20x2 firmware V05.104
27.05.2013	2.0	Version for RTM20xx firmware V05.124
03.09.2013	3.0	Version for RTM20xx firmware V05.303 and USB/LAN interface firmware V1.105
20.02.2014	4.0	Version for RTM20xx firmware V05.400 and USB/LAN interface firmware V1.203
27.05.2014	5.0	Version for RTM20xx firmware V05.411
28.08.2014	6.0	Version for RTM20xx firmware V05.502 and USB/LAN interface firmware V1.306
09.12.2014	7.0	Version for RTM20xx firmware V05.600 and USB/LAN interface firmware V1.405
28.04.2015	8.0	Version for RTM20xx firmware V05.800, USB/LAN interface firmware V1.407 and GPIB interface firmware 3.006
06.12.2016	9.0	Version for RTM20xx firmware V06.010, USB/LAN interface firmware V1.413 and GPIB interface firmware 3.006
27.06.2017	10.0	Version for RTM20xx firmware V06.011, USB/LAN interface firmware V1.420

2 Installation Information

2.1 Firmware Update

The firmware update file for the R&S RTM is one file with the name `RTM20xx_Firmware_V6.011.zip` from the Rohde & Schwarz web page.

2.1.1 Preparing the Installation

The ZIP archive contains the following files:

RTM20x2.FWU	Firmware image R&S®RTM 20x2, including online help and user interface languages
RTM20x4.FWU	Firmware image R&S®RTM 20x4, including online help and user interface languages
GPIB_B10.FWU	Interface firmware for GPIB (for RTM-B10 option)
USB_LAN.FWU	Firmware image for the USB/LAN interface
RTM20xx_Release_Notes_V6.011.pdf	This document

Extract these files from the archive to the root directory of a memory stick.

2.1.2 Updating the Firmware on the Instrument

Follow these steps to update the instrument firmware:

1. Insert the memory stick into the USB port of the oscilloscope and push the key **Setup**.
2. Press the soft key **More 1|3**.
3. Press the soft key **Update**.
4. Press the soft key **Firmware**.
5. Press the soft key **Execute** once the new firmware has been loaded and checked.
6. Wait until the device reboots automatically.

IMPORTANT:

A downgrade from version V5.820 to version V5.124 or older versions requires to do this procedure twice. This means steps 3 to 6 need to be repeated. The reason is that not all components of the firmware package can be downgraded at the same time; downgrade needs to be done in two steps.



The oscilloscope will update the firmware and reboot itself.

Interruption of the power during the update process can make the instrument unusable!

2.1.3 Updating the Firmware on the USB/LAN Interface

Follow these steps to update the firmware on the USB/LAN interface (skip steps 1 to 3 if the USB/LAN interface board is already installed):

1. Turn off the instrument.
2. Install the interface board with the USB and LAN interface in the instrument (at the back of the instrument).
3. Turn on the instrument.
4. Insert the memory stick into the USB port of the oscilloscope and push the key **Setup**.
5. Press the soft key **More 1|3**.
6. Press the soft key **Update**.
7. Press the soft key **Interface**.
8. Press the soft key **Execute** once the new firmware has been loaded and checked.
9. Wait until the update process is finished.



Interruption of the power during the update process can make the instrument unusable!

2.1.4 Updating the Firmware on the GPIB Interface (RTM-B10 option)

The following steps are only possible, if an RTM-B10 option is available.

Follow these steps to update the firmware on the GPIB interface (skip steps 1 to 3 if the GBIP interface board is already installed):

1. Turn off the instrument.
2. Install the interface board with the GPIB interface in the instrument (at the back of the instrument).
3. Turn on the instrument.
4. Insert the memory stick into the USB port of the oscilloscope and push the key **Setup**.
5. Press the soft key **More 1|3**.
6. Press the soft key **Update**.
7. Press the soft key **Interface**.
8. Press the soft key **Execute** once the new firmware has been loaded and checked.
9. Wait until the update process is finished.



Interruption of the power during the update process can make the instrument unusable!

3 New Functions

The following table lists the new functions and indicates the version in which the new function was introduced:

Version	Function
V06.011	None.
V06.010	Full support of all current probes: R&S®RT-ZC5B, R&S®RT-ZC10B, R&S®RTZC15B, R&S®RT-ZC20B; R&S®RT-ZC10, R&S®RT-ZC20, R&S®RT-ZC30

4 Modified Functions

The following table lists the modified functions and indicates the version in which the modification was carried out:

Version	Function
V06.011	None.
V06.010	Update German language for Spectrum Analysis menu texts.
V06.010	Update Russian language for all menu and message texts.

5 Eliminated Issues

The following table lists the eliminated issues and indicates the version in which the issue was eliminated:

Version	Function
V06.011	Solved: Wrong unit in frequency measurement with QUICK MEAS mode.
V06.011	Solved: Probe RT-ZC05B not correctly detected.
V06.010	Solved: firmware does not react any more after several weeks of continuous operation with no user interaction.
V06.010	Solved: option K18 Spectrum Analysis, no spectrum trace was visible when persistence was activated.
V06.010	Solved: wrong units displayed in Quickmeas. When Ampere was configured in the channel menu QuickMeas displayed volts.
V06.010	Solved: cursors disappear after customer setups were activated.
V06.010	Solved: option B1 with some logic channels deactivated: waveform export sometimes did not contain the correct values for the individual logic channels, but always 0.
V06.010	Solved: the maximum waveform acquisition rate in this release is 11000 waveforms/s instead of 12500
V06.010	Solved: RTM20x2 only in combination with B1 and K15 options: when the history segments are played the trigger position of POD1 may not always be correct
V06.010	Solved: with channel coupling ground channel voltage offset was not active.

6 Known Issues

The following table lists the known issues and indicates the version in which the issue was observed for the first time:

Version	Function
V06.011	none

7 Modifications to the Documentation

The new and modified functions mentioned in these release notes are already documented. Except the below mentioned last minute changes you can find the description in the online help or in the manual. The manual can be downloaded from the internet under: <http://www.rohde-schwarz.com>. Select "DOWNLOAD" and search for R&S RTM within the category MANUAL.

Currently no last minute changes to the operating manual exist.

8 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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