

Firmware Release 1.21

(32-Bit-WINDOWS version)

for the Baseband Fading Generator
R&S® ABFS

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1) Important Notes

This package contains the firmware as well as the context sensitive help systems for the basband fading generator R&S® ABFS. As the R&S® ABFS is equipped with flash EPROM's the software can be loaded and updated without opening the equipment.

Additional information about this firmware version and its differences to the previous ones can be found in the file HISTORY.TXT.

2) Installation Software

The software consists of two parts. One part is the loader for the firmware and the second part is the firmware itself. You have to install the loader only once. The loader connects the file extension ".rspkg" with the R&S update program so that you must only double click the firmware file "*.rspkg" to run our update program. You can choose if you want to update the firmware via RS232 (COM1 or COM2) or via IEC/IEEE bus.

3) Prerequisites concerning the PC

A 32-bit-WINDOWS operating system (WINDOWS 95/98/2000 or NT) is running on your PC and about 5 MByte free space on your hard disk is required.

4) Connection between PC and R&S® ABFS

The update via IEC/IEEE bus is faster (about 2 min) but requires more preconditions.
The update via RS232 is slower (about 15 min) but always possible.

4.1) Update via RS 232 (COM1 or COM2)

The generator provides a connection plug with 9 poles. Pinning as well as electrical and mechanical specifications correspond to the 9-pole-plug of a PC. For the connection to the PC a crossed cable (a so-called null modem cable) with a female 9-pole-plug at each end is needed.

A cable according to these specifications is available from Rohde & Schwarz. The order number is 1050.0346.00. This well shielded cable can be used for remote control too.

4.2) Update via IEC/IEEE bus (GPIB)

Connect your PC and the R&S® ABFS with a standard IEC/IEEE cable. You have to use a IEC/IEEE card from National Instruments with drivers from NI-488.2 version 1.60 or higher. Other configurations can cause problems and destroy calibration data!

This update mode is supported with R&S® ABFS boot EPROM version V1.30HX or higher (you can see the version if you switch on the R&S® ABFS while pressing the number key '0' or '5').

5) Procedure of a firmware update

- Preparation

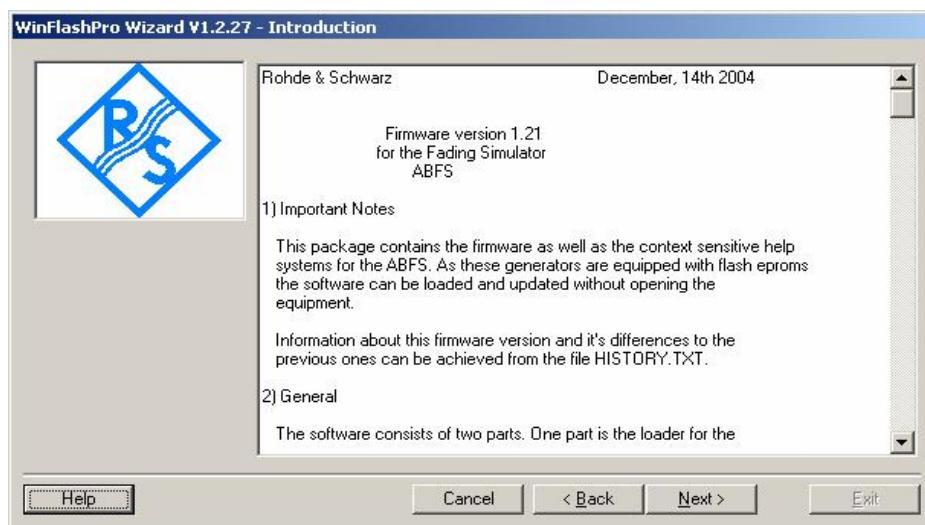
Start your WINDOWS Explorer and copy the self-extracting file into a new directory. Executing the file will extract the data into the same directory.

- Installing the firmware loader

Double click in your explorer the file "R&S_WinFlashPro.exe". This starts the installation program. Follow the instructions given by the installation process (normally you can answer all questions with the default suggestion). The firmware loader is now installed on your PC.

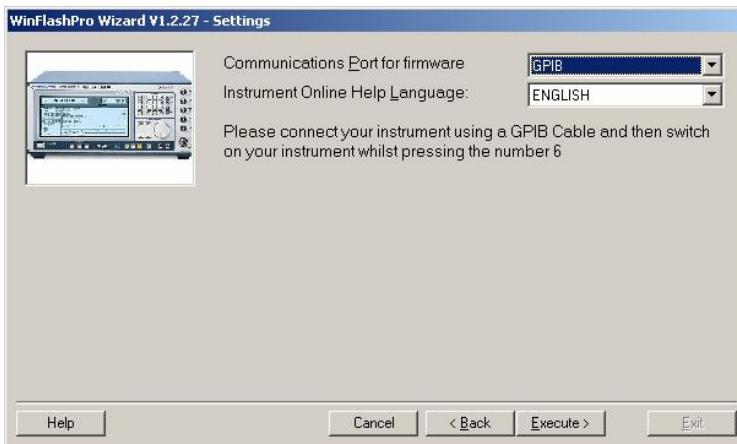
- Running the firmware update process

Double click in your explorer the file "abfs_1_21.rspkg". This starts the firmware update process.



Follow the instructions given by the program. You only have to choose the communication port (COM1, COM2 or GPIB) and the language of the help files of the generator (English or German).

Connect the generator with the PC as written in the line below the selection boxes, switch on the generator with the correct button pressed ('5' for RS 232 or '6' for GPIB). When this is done, then click the EXECUTE button in the program.



Now the firmware update is running.



Some minutes later, when the update is finished, the following window appears:

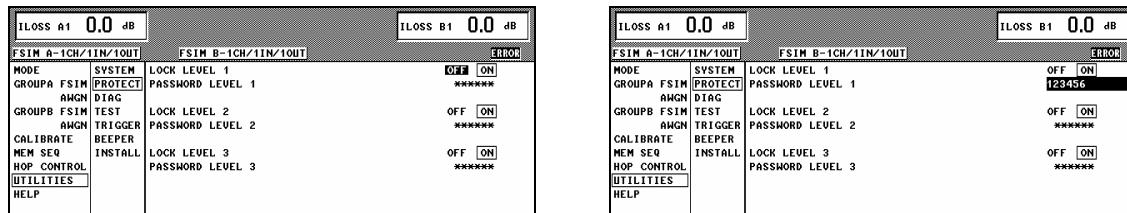


When the update is done the R&S® ABFS starts automatically.

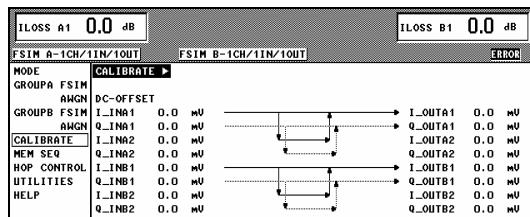
- Internal calibration

Alarm messages appearing on the display are the consequence of missing calibration data. The calibrations can be carried out without external measuring instruments:

Unlock protection level 1 in the menu UTILITIES/PROTECT by switching to OFF. The cursor automatically jumps down to line PASSWORD LEVEL 1. Type in "123456" and press the ENTER button.



Execute the calibrations from the menu UTILITIES/CALIB/ALL. The generator should be in a warmed-up condition (at least 30 minutes switched on). After the calibration all errors will disappear.



6) New and modified Functions

- New option ABFS-B50 (W-CDMA (3GPP) fading functions for second fading simulator ABFS-B2) supported.

7) Problems Eliminated

- Fixed Problem: Hopping Control / Reset didn't disable the trigger.

Appendix: Contact to our hotline

Any questions and ideas concerning the instrument are welcome to our hotline:

Phone: +49-1805-124242
 FAX: +49-89-4129-13777
 e-mail: CustomerSupport@rsd.rohde-schwarz.com