R&S®ZN-Z85
Release Notes

Firmware Version 4.49

The software makes use of several valuable open source software packages. For information, see the "Open Source Acknowledgment" provided with the product.

The following abbreviations are used throughout this document: R&S®ZN-Z85 is abbreviated as R&SZN-Z85.

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Contents

1 Information on the current version and history

1.1 Version 4.49

Annotation: the given reference numbers refer to the appropriate change management system

Firmware package contents

Version	Contents	Reference
4.49	Firmware for ZN-Z85	
1.20	FPGA Application for ZN-Z85	

NOTICE

FPGA V1.20 and Firmware V4.49 work only together

New functionality

Version	Contents	Reference
-		

Modified functionality

Version	Contents	Reference
-	-	

Improvements

Version	Contents	Reference
4.49	Remote Control speed improvement for route switching.	

Known issues

Version	Contents	Reference
-	-	

1.2 Version 4.45

Annotation: the given reference numbers refer to the appropriate change management system

Firmware package contents

Version	Contents	Reference
4.45	Firmware for ZN-Z85	
1.20	FPGA Application for ZN-Z85	

NOTICE

FPGA V1.20 and Firmware V4.45 work only together

New functionality

Version	Contents	Reference
-		

Modified functionality

Version	Contents	Reference
-	-	

Improvements

Version	Contents	Reference
4.45	Routes with path 0 do show up now in SCPI command "show:routes?"	
4.45	If the trigger source is set to Direct Control, trigger reset via SCPI is possible now	

Known issues

Version	Contents	Reference
-	-	

1.3 Version 4.40

Annotation: the given reference numbers refer to the appropriate change management system

Firmware package contents

Version	Contents	Reference
4.40	Firmware for ZN-Z85	
1.20	FPGA Application for ZN-Z85	

NOTICE

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New functionality

Version	Contents	Reference
4.40	Firmware: Trigger Mode: - The user can add up to 2048 sequences (routes) to the device. - Those sequences can be switched sequentially by software with SCPI commands or by Direct Control interface. - The trigger list will be rotated in a loop: After reaching the end of the trigger list, the next switched entry will be the first entry of the trigger list. - Any entry in the trigger list can also be set directly via SCPI command. - The user can define a subset of the trigger list. Example: There are 10 entries in the trigger list. Now the user can define entry 3 as trigger start and entry 5 as trigger stop. Then the trigger will switch in the following order: 3, 4, 5, 3, 4, 5, 3 etc.	
1.20	FPGA: Support for trigger mode	

Modified functionality

Version	Contents	Reference
-	-	

Improvements

Version	Contents	Reference
-	-	

Known issues

Version	Contents	Reference
4.40	Routes with path 0 do not show up in SCPI command "show:routes?"	
4.40	If the trigger source is set to Direct Control, trigger reset via SCPI is not possible	

2 Modifications to the documentation

The current documentation is up-to-date.

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3 Firmware update

Further information

● R&S®ZN-Z85 Switch Matrix User Manual 1326.4819.02

3.1 Validity information

If necessary list here the material and model numbers the firmware is referring to

Device	Order Number
R&S®ZN-Z85	1326.4777.03

3.2 Update information

To update FPGA and firmware on a single R&S ZN-Z8x switch box (e.g. R&S ZN-Z85) the R&S ZN-Z8x Toolbox is used. For information about the latest version of R&S ZN-Z8x Toolbox, please visit:
https://www.rohde-schwarz.com/software/znz8xswitchmatrix/

For information about the latest FPGA and firmware, please visit:
https://www.rohde-schwarz.com/firmware/znz8xswitchmatrix/
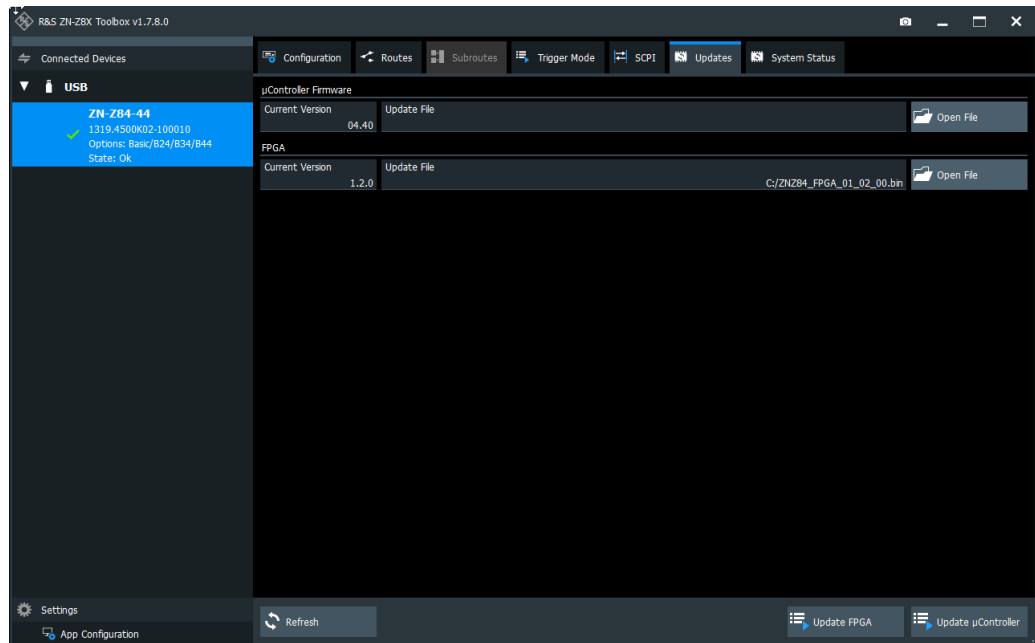
NOTICE

● FPGA and firmware update is only possible when the device is connected via USB with the PC.
● The FPGA needs to be updated before updating the µController Firmware. After a successful FPGA update a restart of the device is necessary and needs to be done manually.
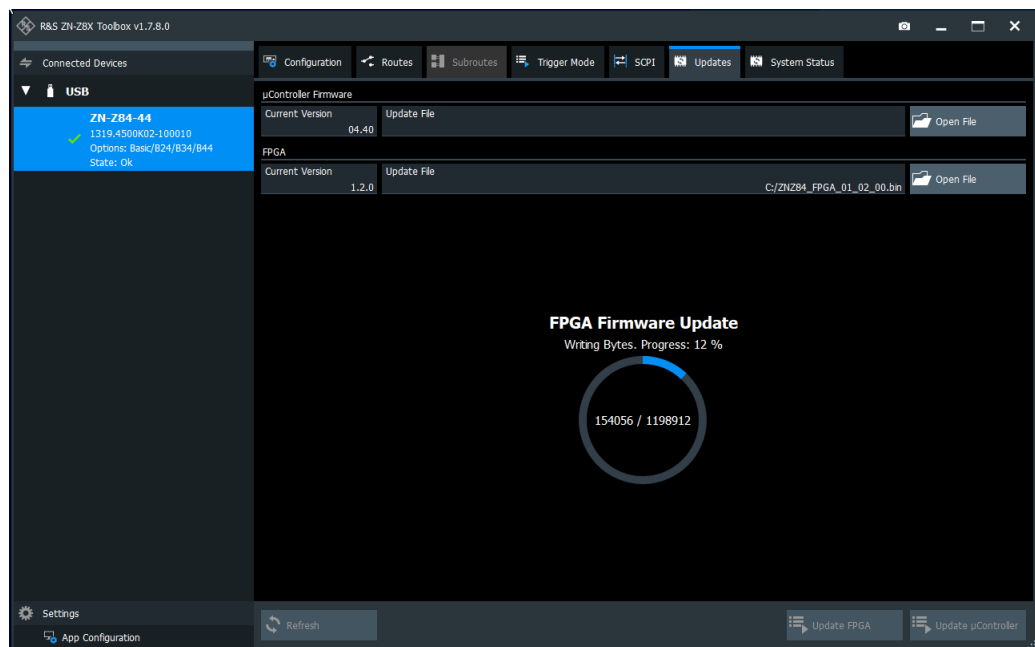● FPGA and Firmware work only together as a package

3.2.1 Updating the FPGA

1. Download the latest FPGA ("`ZNZ85_FPGA_xx_xx_xx`.**bin**", where xx_xx_xx is the version) and firmware ("`ZNZ85_Firmware_xx_xx`.**bin**", where xx_xx is the version) from https://www.rohde-schwarz.com/firmware/znz8xswitchmatrix/ to your PC. File "`ZNZ85_FPGA_xx_xx_xx`.**bin**" is used for updating the FPGA and file "`ZNZ85_Firmware_xx_xx`.**bin**" is used for updating the firmware.

2. Connect the R&S ZN-Z85 device to the PC via USB and open the R&S ZN-Z8x Toolbox. In the "*Connected Devices*" section select the ZN-Z85 device. Go to the tab **"***Updates***"**.
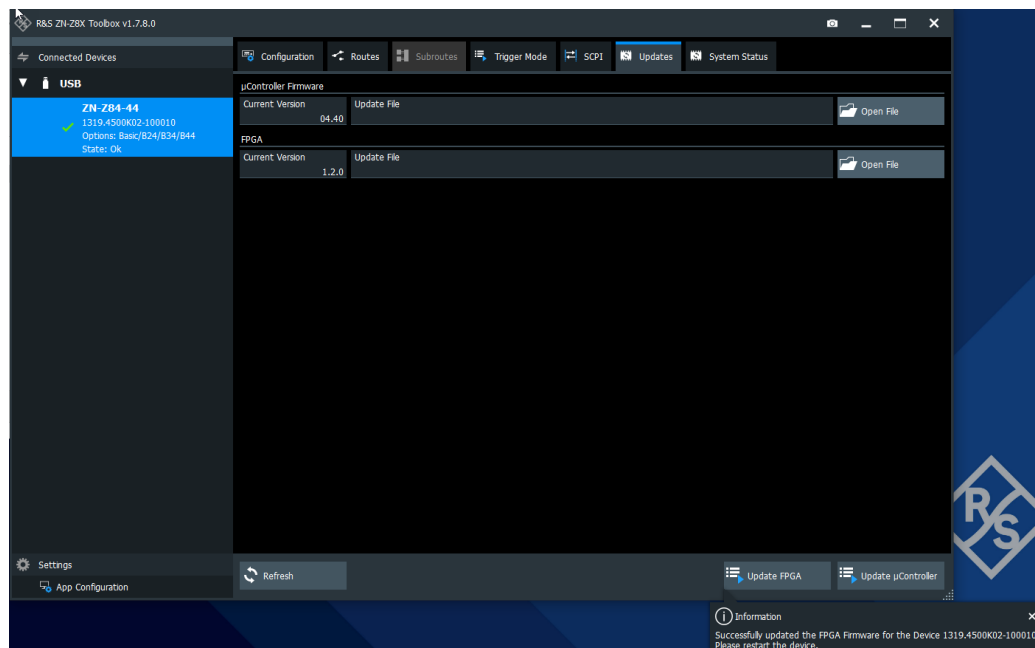
3. In line FPGA click on "*Open File*" and select the FPGA binary file
    "`ZNZ85_FPGA_xx_xx_xx.bin`" e.g. "`ZNZ85_FPGA_01_02_00.bin`".

4. Click on "*Update FPGA*". The update of FPGA will last about 5 minutes.
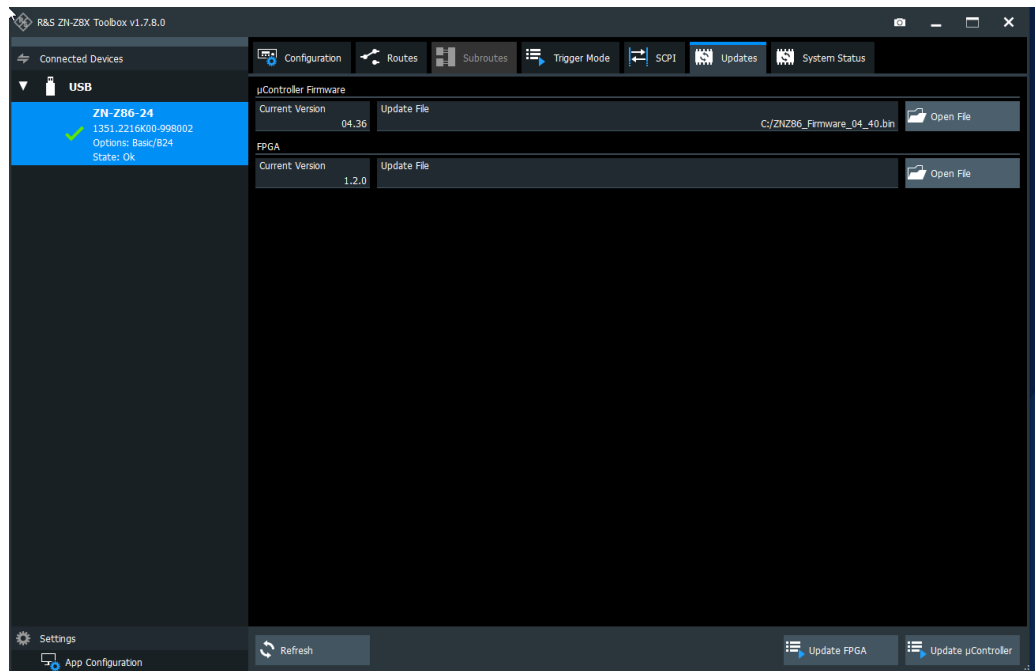

5. After successful update of the FPGA, restart the R&S ZN-Z85 device manually.
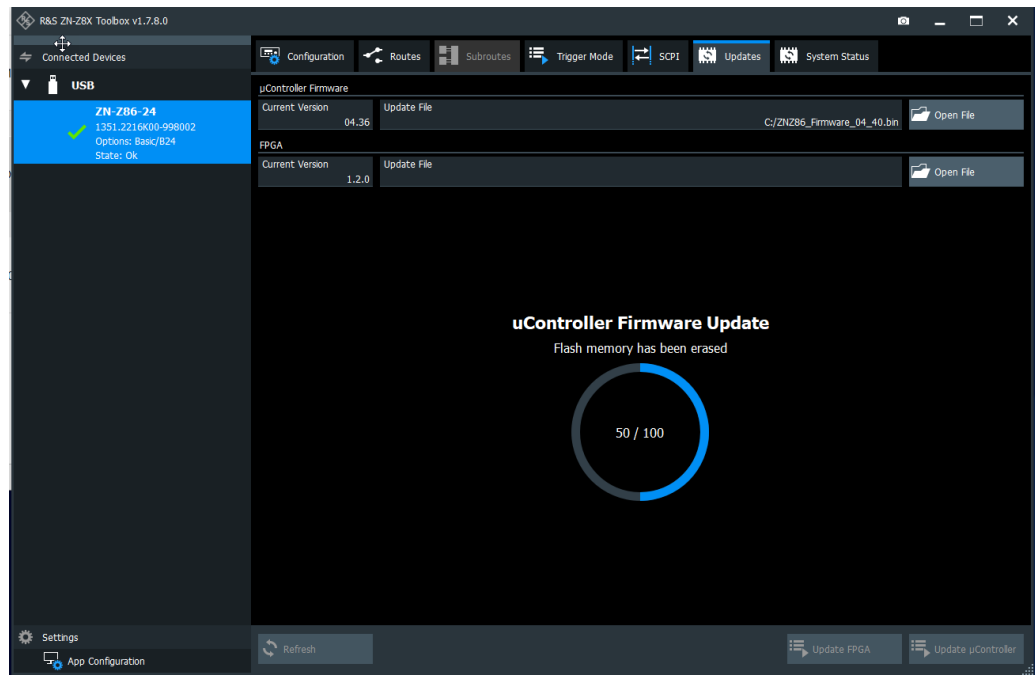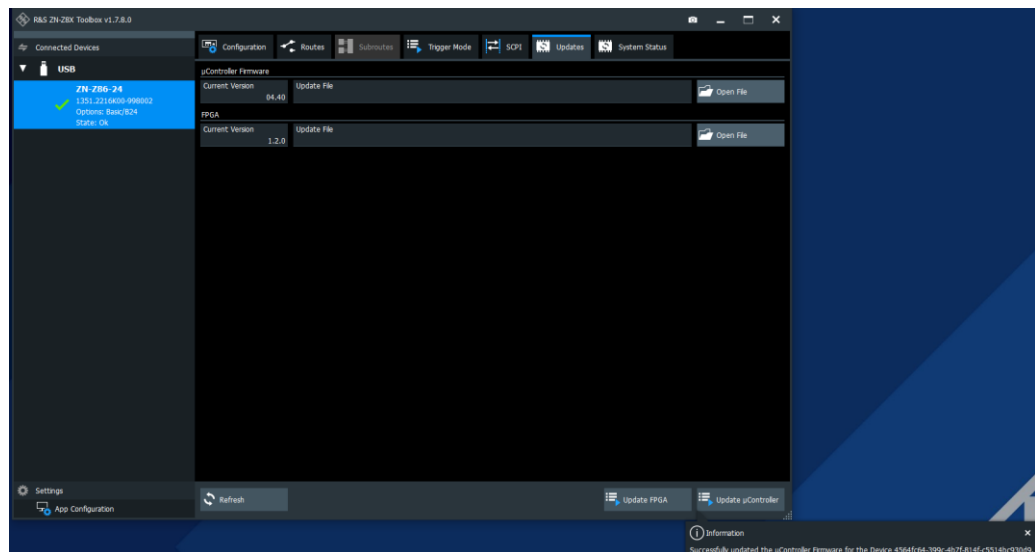
3.2.2 Updating the Firmware

6. In line "µController Firmware" click on "*Open File*" and select the firmware binary file "ZNZ85_Firmware_xx_xx.**bin**" e.g. "ZNZ85_Firmware_04_40.**bin**".

7. Click on "*Update µController* "

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8.   After successful update of the firmware the device will restart itself.

4 Customer support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

Contact information

Contact our customer support center at www.rohde-schwarz.com/support or follow this QR code:

Figure 4-1: QR code to the Rohde & Schwarz support page