

How to use R&S® FSQ Signal Analyzer drivers

Contents

Contents	1
LabWindows/CVI	2
CVI Version	2
Additional Help	2
LabVIEW	2
Additional Help for LabVIEW drivers	2
LabVIEW 6.0 driver	2
LabVIEW 7.1 driver	2
LabVIEW 8.2 and 8.5 drivers	2
VXIplug&play Instrument Driver for VEE, C++, C#, Visual Basic, Visual Basic .NET etc.	2
C#	2
Visual Basic .NET	3
VEE Version	3
Additional Help	3
Additional Information	3
Linux	3
Remote control via LAN	4
Instrument Name and IP Address	4
VXI-11 Support	4
RSIB Interface	4

LabWindows/CVI

CVI Version

Use National Instruments LabWindows/CVI 6 or later.

Additional Help

The LabWindows/CVI instrument driver consists of a ZIP archive containing the driver sources. In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources.

LabVIEW

Additional Help for LabVIEW drivers

The LabVIEW instrument driver consists of a ZIP archive containing the driver sources (LLB and MNU files). In addition, the instrument driver documentation is included in compressed HTML format (Windows CHM help file) stored together with the LV driver sources. Each VI's help is linked to the section in the "CHM" file that describes all the features of the VI.

LabVIEW 6.1 and higher an additional help topic can be accessed directly by pressing "[Click here for more help](#)" in the Context Help

LabVIEW 6.0 driver

Please contact the Rohde & Schwarz Customer Support Center.

LabVIEW 7.1 driver

Please use the LabVIEW 7 driver.

LabVIEW 8.2 and 8.5 drivers

Please use the LabVIEW 8 driver.

VXIplug&play Instrument Driver for VEE, C++, C#, Visual Basic, Visual Basic .NET etc.

C#

A wrapper is necessary to enable a direct access to the driver DLL. The rsfsq.cs wrapper for C# is automatically installed in the ~\VXIIPnP\WinNt\include directory.

Visual Basic .NET

A wrapper is necessary to enable a direct access to the driver DLL.
The rsfsq.vb wrapper for .NET is automatically installed in the ~\VXIPnp\WinNt\include directory.
See the Visual Basic .NET examples.

VEE Version

Use VEE 6 or later.

Additional Help

In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources in the ~\VXIPnp\WinNT\rsfsq directory.

Additional Information

For more information regarding the VXIPnP instrument drivers, please read the readme.txt file that comes with each driver.

Linux

Drivers for Linux are available - Please contact Rohde & Schwarz Customer Support Center

Remote control via LAN

Instrument Name and IP Address

In order to connect the instrument using VXI-11 or RSIB use the instrument name or the IP address.

Default Name of the Instrument

The R&S FSQ is preconfigured for networks using DHCP (dynamic host configuration protocol). In these networks, an available IP address is automatically assigned to the R&S FSQ. In this case the instrument is identified via an unambiguous computer name in the network.

As **default** the name is composed of:

FSQx- (FSQ3, FSQ8, FSQ26 or FSQ40)
Serial number (on the rear panel of the instrument)

Example: FSQ8-100062

To find the instrument name and IP address with a keyboard connected to the instrument

Instrument name: Start => Settings =>Control Panel => System => Computer Name
IP Address: Start => Settings =>Network Connections => Local Area Connection => Support

To find the IP Address without a Keyboard connected to the instrument

If you need the IP-Address of the instrument send a "ping" command in the command prompt window.

Example

Ping FSQ8-100062

If you do not know the name, connect a keyboard and use the procedure above.

VXI-11 Support

VXI-11 support since Firmware 3.6x

Use the instrument name or the IP address as a resourceName in the rsfsq_init function.

Example TCPIP::FSQ8-100062::INSTR
TCPIP::192.168.1.33::INSTR

RSIB Interface

This driver supports remote control via RSIB. For more information see application note [1EF47](#)

Use the instrument name or the IP address as **resourceName** in the rsfsq_init function.

Example RSIB::FSQ8-100062::INSTR or
RSIB::192.168.1.33::INSTR