

LabWindows/CVI, VXIplug driver history for the R&S® SMCV100B Vector Signal Generator

Products:

| R&S®SMCV100B



Driver history for LabWindows/CVI and VXIplug&play Instrument Driver

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1 Supported Instruments

In the following table, the supported R&S instruments and firmware versions are listed:

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	Supported Firmware	Remarks
SMCV100B	4.70.060	First Release

2 Getting Started

2.1 LabWindows/CVI driver

The Rohde & Schwarz **rssmxv** Instrument driver can be used in LabWindows/CVI 6 and later. In order to be able to compile an application it is required to add following files to your LabWindows/CVI project:

- *rssmxv.c + rssmxv.h*
- *rssmxv_attributes.c + rssmxv_attributes.h*
- *rssmxv_utility.c + rssmxv_utility.h*
- *rsidr_core.c + rsidr_core.h*
- *rssmxv_callbacks.c*
- *rssmxv.fp + rssmxv.sub*

2.2 VXIplug&play driver in C/C++, LabWindows/CVI

In this case, the compiled source code from LabWindows/CVI driver is used. The compiled ANSI-C libraries exist for Windows XP and newer, 32-bit / 64-bit.

Add the following files to your 32-bit target project:

- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\include\rssmxv.h
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\lib\msc\rssmxv.lib (static)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\Bin\rssmxv_32.dll (dynamic)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rssmxv\rssmxv.fp (in CVI only)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rssmxv\rssmxv.sub (in CVI only)

Add the following files to your 64-bit target project:

- C:\Program Files\IVI Foundation\VISA\Win64\Include\rssmxv.h
- C:\Program Files\IVI Foundation\VISA\Win64\Lib_x64\msc\rssmxv64.lib (static)
- C:\Program Files\IVI Foundation\VISA\Win64\Bin\rssmxv_64.dll (dynamic)
- C:\Program Files\IVI Foundation\VISA\Win64\rssmxv\rssmxv.fp (in CVI only)
- C:\Program Files\IVI Foundation\VISA\Win64\rssmxv\rssmxv.sub (in CVI only)

2.3 VXIplug&play driver in MATLAB

MATLAB instrument driver **rssmxv.mdd** can be found in:

32-bit driver

C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rssmxv\rssmxv.mdd

64-bit driver

C:\Program Files\IVI Foundation\VISA\Win64\rssmxv\rssmxv.mdd

For detailed description on how to use the driver in MATLAB please refer to the Application Note [1MA171 - How to use R&S instrument in MATLAB](#)

2.4 Linux and Mac OS X

To be able to use Rohde & Schwarz **rssmxv** Instrument driver in Linux or Mac OSX, the functioning VISA is required. Then, the process is the same as using LabWindows/CVI driver.

2.5 Additional Help

LabWindows/CVI and VXIplug&play instrument driver contains in addition the instrument driver documentation in compressed HTML format (Windows CHM help file **rssmxv_vxi.chm**) and stored together with the driver sources or in the following folder:

32-bit driver

C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rssmxv\rssmxv_vxi.chm

64-bit driver

C:\Program Files\IVI Foundation\VISA\Win64\rssmxv\rssmxv_vxi.chm

3 LabWindows/CVI and VXIplug&play driver history

rsmxv Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
1.0.0	04/2020	* Initial release * Support for SMCV FW 4.70.060

About Rohde & Schwarz

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Environmental commitment

- Energy-efficient products
- Continuous improvement in environmental sustainability
- ISO 14001-certified environmental management system



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