How to use VXIPnP drivers for the Rohde & Schwarz CMU 300 Universal Radio Communication Tester

Contents

CMU 300 Instrument Drivers

The instrument driver suite for CMU 300 currently consists of several instrument drivers.

Instrument Driver	Supported Instrument Options	Standard
RSCMU200		RF Non-Signalling, Audio
RSCMU300	**For compatibility and RSCMUK3G**	RF Non-Signalling, Audio
RSCMUK3G	K30, K31, K32, K33, K41	GSM BS

All RSCMUKxx instrument drivers can only be installed and used when RSCMU300 driver module is installed on the system. This applies to every development system and application that will make calls to these drivers.

CMU 300 Function Groups

Each function group on the instrument represents a separate VISA session to the instrument. The following table shows initialize and close functions that should be used to initialize and close each currently supported function group.

Function Group	Initialize Function Not used for VEE	Close Function Not used for VEE
RSCMU200/RSCMU300		
RSCMU_BASE	RSCMU_Init_Base	RSCMU_Close_Base
RSCMU_RF_NSIG	RSCMU_Init_RF_NSig	RSCMU_Close_RF_NSig
RSCMU_AUDIO_NSIG	RSCMU_Init_Audio_NSig	RSCMU_Close_Audio_NSig
RSCMU300	**For compatibility and RSCMUK3G only**	
RSCMU300_BASE	RSCMU300_Init_Base	RSCMU300_Close_Base
RSCMU300_RF_NSIG	RSCMU300_Init_RF_NSig	RSCMU300_Close_RF_NSig
RSCMU300_AUDIO_NSIG	RSCMU300_Init_Audio_NSig	RSCMU300_Close_Audio_NSig
RSCMUK3G		
RSCMU300_GSM400BS_NSIG	RSCMU300_Init_GSM_NSig	RSCMU300_Close_GSM_NSig
RSCMU300_GSM400BS_SIG	RSCMU300_Init_GSM_Sig	RSCMU300_Close_GSM_Sig
RSCMU300_GSM850BS_NSIG	RSCMU300_Init_GSM_NSig	RSCMU300_Close_GSM_NSig
RSCMU300_GSM850BS_SIG	RSCMU300_Init_GSM_Sig	RSCMU300_Close_GSM_Sig
RSCMU300_GSM900BS_NSIG	RSCMU300_Init_GSM_NSig	RSCMU300_Close_GSM_NSig
RSCMU300_GSM900BS_SIG	RSCMU300_Init_GSM_Sig	RSCMU300_Close_GSM_Sig
RSCMU300_GSM1800BS_NSIG	RSCMU300_Init_GSM_NSig	RSCMU300_Close_GSM_NSig
RSCMU300_GSM1800BS_SIG	RSCMU300_Init_GSM_Sig	RSCMU300_Close_GSM_Sig
RSCMU300_GSM1900BS_NSIG	RSCMU300_Init_GSM_NSig	RSCMU300_Close_GSM_NSig
RSCMU300_GSM1900BS_SIG	RSCMU300_Init_GSM_Sig	RSCMU300_Close_GSM_Sig

For more information regarding the CMU 300 VXIPnP instrument drivers, please read the readme.txt file that comes with each driver.

RSCMUK3G driver
Please use the RSCMU300 Base driver.
It is necessary to install the CMU200/CMU300 VXIPnP driver first.

VEE Users
In addition, the required settings for VEE for every driver are specified as standard in the Readme.txt file.
VEE initializes the measuring instruments when a driver function is first called up. Contrary to other programs (LabWindows/CVI, LabVIEW, Visual C++, Visual Basic etc.) dynamic management of secondary addresses in the program is not possible. The Universal Radio Communication Tester CMU features different functional groups, each with their own

secondary addresses. The names of the functional groups and their secondary addresses must therefore already be defined when starting the program.
 Consequently, you have to define the names of the functional groups and their secondary addresses in the CMU demo programs.
You can make the settings with the aid of Readme.txt or with the aid of demo programs. Using the demo programs, you can easily check if everything is correct.

See also Application Note " Rohde & Schwarz Device Drivers under VEE Installation and Troubleshooting" 1MA35_E1.pdf .

VEE Application Examples

Example	Description	Required Instrument Drivers
Rscmu_rf_nsig_example	RF Non-Signalling Measurements	RSCMU200/RSCMU300

Visual Basic Application Examples

Example	Description	Required Instrument Drivers
Rscmu_rf_nsig_example	RF Non-Signalling Measurements	RSCMU200/RSCMU300

Additional Information

For more information regarding the CMU 200 VXIPnP instrument drivers, please read the readme.txt file that comes with each driver.