

R&S[®]SMCVB-KS14

DVB-T2 MI Streams

User Manual



1179268302
Version 01

ROHDE & SCHWARZ
Make ideas real



This document describes the following software options:

- R&S®SMCVB-KS14 DVB-T2 MI Streams (1434.5057.xx)

© 2020 Rohde & Schwarz GmbH & Co. KG

Mühlhofstr. 15, 81671 München, Germany

Phone: +49 89 41 29 - 0

Email: info@rohde-schwarz.com

Internet: www.rohde-schwarz.com

Subject to change – data without tolerance limits is not binding.

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG.

Trade names are trademarks of the owners.

1179.2683.02 | Version 01 | R&S®SMCVB-KS14

The following abbreviations are used throughout this manual: R&S®SMCV100B is abbreviated as R&S SMCV100B.

Contents

1	Welcome to the R&S SMCVB-KS14 Option.....	5
1.1	Key Features.....	5
1.2	Installation.....	5
1.3	Documentation Overview.....	5
1.3.1	Getting Started Manual.....	5
1.3.2	User Manuals and Help.....	6
1.3.3	Service Manual.....	6
1.3.4	Instrument Security Procedures.....	6
1.3.5	Printed Safety Instructions.....	6
1.3.6	Data Sheets and Brochures.....	6
1.3.7	Release Notes and Open Source Acknowledgment (OSA).....	7
1.3.8	Application Notes, Application Cards, White Papers, etc.....	7
2	Available DVB-T2 MI Stream Files.....	8
2.1	File Descriptions.....	8
	Index.....	9

1 Welcome to the R&S SMCVB-KS14 Option

The R&S SMCVB-KS14 is a stream library that provides stream files in accordance with the DVB-T2 digital standard.

This user manual contains a reference description of the functionality that the stream library provides. All functions not discussed in this manual are described in the R&S SMCV100B user manual. The latest version is available at:

www.rohde-schwarz.com/manual/SMCV100B

1.1 Key Features

The R&S SMCVB-KS14 features:

- Numerous stream files in accordance with DVB-T2 digital standard
- Streaming of high-quality video contents
- Streaming of high-quality audio contents
- Efficient use with dedicated streams

1.2 Installation

You can find detailed installation instructions in the supplement document of the R&S SMCV100B user manual and in the R&S SMCV100B user manual describing firmware versions later than FW 4.70.176.xx of the R&S SMCV100B.

1.3 Documentation Overview

This section provides an overview of the R&S SMCV100B user documentation. Unless specified otherwise, you find the documents on the R&S SMCV100B product page at:

www.rohde-schwarz.com/manual/smcv100b

1.3.1 Getting Started Manual

Introduces the R&S SMCV100B and describes how to set up and start working with the product. Includes basic operations, typical measurement examples, and general information, e.g. safety instructions, etc. A printed version is delivered with the instrument.

1.3.2 User Manuals and Help

Separate manuals for the base unit and the software options are provided for download:

- **Base unit manual**
Contains the description of all instrument modes and functions. It also provides an introduction to remote control, a complete description of the remote control commands with programming examples, and information on maintenance, instrument interfaces and error messages. Includes the contents of the getting started manual.
- **Software option manual**
Contains the description of the specific functions of an option. Basic information on operating the R&S SMCV100B is not included.

The contents of the user manuals are available as help in the R&S SMCV100B. The help offers quick, context-sensitive access to the complete information for the base unit and the software options.

All user manuals are also available for download or for immediate display on the Internet.

1.3.3 Service Manual

Describes the performance test for checking compliance with rated specifications, firmware update, troubleshooting, adjustments, installing options and maintenance.

The service manual is available for registered users on the global Rohde & Schwarz information system (GLORIS):

<https://gloris.rohde-schwarz.com>

1.3.4 Instrument Security Procedures

Deals with security issues when working with the R&S SMCV100B in secure areas. It is available for download on the Internet.

1.3.5 Printed Safety Instructions

Provides safety information in many languages. The printed document is delivered with the product.

1.3.6 Data Sheets and Brochures

The data sheet contains the technical specifications of the R&S SMCV100B. It also lists the options and their order numbers and optional accessories.

The brochure provides an overview of the instrument and deals with the specific characteristics.

See www.rohde-schwarz.com/brochure-datasheet/smcv100b

1.3.7 Release Notes and Open Source Acknowledgment (OSA)

The release notes list new features, improvements and known issues of the current firmware version, and describe the firmware installation.

The open-source acknowledgment document provides verbatim license texts of the used open source software.

See www.rohde-schwarz.com/firmware/smcv100b

1.3.8 Application Notes, Application Cards, White Papers, etc.

These documents deal with special applications or background information on particular topics.

See www.rohde-schwarz.com/application/smcv100b

2 Available DVB-T2 MI Stream Files

The R&S SMCVB-KS14 stream library contains the following files.

Transport stream files / recall files	Remark
K227_Content_Files_180Sec	These files can be used by a DVB T2 gateway or the BCMux to generate the corresponding T2-MI streams. If a DVB T2 gateway or the BCMux is not available, the corresponding T2-MI stream files from disk 4 to 9 must be used instead.
K227_T2MI_60Sec	
K227_T2MI_180Sec	
K227_T2MI_MultiProfile_T2_T2Lite	T2 profile: T2-MI PID 0x1000, T2-MI SID 0x0 T2-Lite profile: T2-MI PID 0x1001, T2-MI SID 0x1
BCMux recall files	Dedicated files for DTG, NorDig and V&V test cases to generate the corresponding T2-MI files. DTG recall files are according with "D-Book 7.0 part A v 3". NorDig recall files are according with "NorDig-Unified_Test_specification_ver_2.2.2" and "NorDig-Unified_Test_plan_ver_2.4". V&V recall files are according with "V&V Parameter Sets79" and "V&V Parameter Sets82".

All file names contain the related test case of the DVB.org Verification & Validation group or DTG, e.g. "VV400" or "DTG201". This mapping assigns the T2-MI files to the corresponding content files.

2.1 File Descriptions

The available transport stream files are described in the Microsoft Excel file `LIB-K57_SFU-K227_Content_Overview_<version>.xls`. As an alternative file format, a separate PDF file for each tab in Excel is provided.

Index

A

Application cards	7
Application notes	7

B

Brochures	6
-----------------	---

D

Data sheets	6
Documentation overview	5
DVB-T2 MI stream files	8

G

Getting started	5
-----------------------	---

H

Help	6
------------	---

I

Installation	5
Instrument help	6
Instrument security procedures	6

K

Key features	5
--------------------	---

O

Open source acknowledgment (OSA)	7
--	---

R

Release notes	7
---------------------	---

S

Safety instructions	6
Security procedures	6
Service manual	6

U

User manual	6
-------------------	---

W

Welcome	5
White papers	7