

FIRMWARE VERSION HISTORY of R&S SFE/SFE100

VERSION 01.30 / 2008-08-08 / Manual E4

Note: -

Known problems:

- BERT: PRBS measurement limited to continuous clock and ENABLE=always.
Due to polling short interrupts may not be detected.
Not supported with T-DMB.
- FM: RDS not fully functional.

New features:

- DVB-S2 (K8) supported
- J.83B (K5) supported
- MediaFlo (K10) supported
- AM/FM (K170) supported
- BERT (K60) supported
- ARB: Memory (1GByte) for 256 MSamples is supported
- RF: Level range extended
- RF: Sideband suppression is improved
- DVB-S: Lower limit of symbol rate extended
- TsGen: File type filter is improved
- TsGen: No more sporadic refuses to play out a file
- Dynamic warnings of any application are visible in all applications
- Remote: RAW TCP/IP is supported
- Remote: TsGen: Read position is readable
- TX: Digital IQ IN indicates input symbol rate
- WinQSim Support (K350) and CUSTOM OFDM (ARB) (SMU-K15) supported
- SFU-K223: (DAB PLUS STREAMS) supported
- SFU-K224: (ISDB-T STREAMS) supported
- File selector: Recent list available

Bug fixes:

- TsGen: After preset SFE with option K22 and without option K20 does not report warning: gts file option missing
- DVB-T: No longer incorrect TS messages
- Focus loss pressing <0> and <ESC> solved
- Long file paths don't exceed their text box
- Type libraries / DLLs can be loaded after software update V01.20

VERSION 01.20 / 2008-06-06 / Manual E3

Note: - OSS is part of this document

Known problems: -

New features:

- DVB-C / ISDB-C (K2) supported
- DVB-S (K3) supported
- 8VSB (K4) supported
- TsGen: After PRESET TsGen is in running state
- ARB file is checked for valid sw option before loading
- ATV: Automatic VIDEO gain is supported
- ATV-VIDEO: Additional signals
- ISDB-T: Test signal "sync + 187 payload" supported
- ISDB-T: Improved MER of central carrier
- Setup Communications: After editing is finished menu data are updated again
- Setup Communications: Full computer name is not editable
- Setup: Hardware- and Software-Info is shown on SFE100-GUI
- 1PPS used for TRIGGER IN in SFE100

Bug fixes:

- Digital IN: PEP value is refreshed with pressing REFRESH under SIGNAL INFO/STAT.
- ARB: Preset value of clock frequency harmonized with preset file
- Memory size for ARB and video generator is indicated correctly
- ATV-VIDEO: Color burst position and length of PAL, NTSC is correct
- ATV-VIDEO: Field jitter of NTSC works correct
- ATV-VIDEO: Frequency response of SINx/x is repaired
- AtvVideoBasic: Color burst length and field jitter are correct
- ISDB-T time interleaver fully functional
- Remote: Commands for signal info / statistics supported

- Remote: ISDBt:ACD2 works correct
- TsGen works correct after changing DTV standard
- K23 is shown in active software options
- "Attach to card reader failed" during startup will not appear any longer
- 108 MBit/s limit of ASI-Interface removed
- After Preset and pressing the rollkey (as enter) the softkeys are working again
- After repeated presets or enter with rotary knob the softkeys are working correctly
- During file load menu and progress bar are visible
- Recall of APPL does not result in a deadlock
- Signal info / statistics: Refresh only visible with DIGITAL IN selected
- With RF lower than 87 MHz local adjustment works correct

VERSION 01.10 / 2008-02-21 / Manual E2

Note: - DTMB functionality according standard (8MHz) guaranteed only

Known problems:

- DVB-T: TSGEN with 5MHz bandwidth not working
- ISDB-T: Switching from other Transmission-Standards to ISDB-T: Timeinterleaver with I=0 working only
- When booting with ISDB-T: Timeinterleaver fully functional
- ARB: Short spurious signals when switching RF, Level or clock rate in sporadic cases.

- ISDB-T (K6) supported
- DTMB (K12) supported
- TSGEN / TRP Player (K20/K22) supported
- ATV (K190, K191, K193, K194, SFE:-K195) supported
- Dig. I/Q IN (K80) supported
- ARB: SFU-K356 supported
- ARB: Filename and Clock Frequency displayed in TX Application
- DVB-T/H: Stuffing OFF supported
- Remote Control: Subsystem Identifier "IQCoder:" is optional
- Trigger Output available with REFERENCE EXT enabled
- New PCIe interface (01.02.00.04) for TSGEN
- Bug fix: Diagnostic of points with negative voltage works correct
- Bug fix: Error Message "MISSING SW OPTION" added
- Bug fix: Frequency setting at multiples of 120 MHz is correct
- Bug fix: T-DMB: STC/SSTC table handled correctly with missing ETI signal at start-up
- Bug fix: Vector modulation adjustment is working with RF OFF

VERSION 01.04 / 2007-12-17 / Manual E2

Note: For SFE100 demo units only

Known problems: DVB-T hierarchical coding: Some combinations with external TS not working properly

- DTMB (K12) supported
- ATV (K190, K191, K193, K194) supported
- High Power SFE100-B90 supported

VERSION 01.02 / 2007-09-28 / Manual E1

Note: -

Known problems: None

- T-DMB (K11) supported
- ARB (K35) supported

VERSION 01.00 / 2007-08-31 / Manual E1

Note: FW for demo units only

- Known problems: None

- DVB-T/H (K1) supported
- AWGN (K40) supported / SFE only

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The End

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Version 1.0 - August 17th, 2003

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1.10 ZLib License

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005
Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler
```

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```
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*/
```