



SARK PLOTS

SARK-110 Client Software for Windows

Cumulative Release Notes

Revision 1.0.0.50



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1 Installation notes and known issues

- The analyzer must be set in Computer Control mode to be able to connect from SARK Plots.
- If the program prompts the error "sark110.dll missing", install the Microsoft Visual C++ 2010 Redistributable Package (x86) at: <http://www.microsoft.com/en-us/download/details.aspx?id=5555>
- Export Screenshot feature does not work properly on Microsoft Surface and other computers with high density screens. Please use the operating system's screen capture function or a dedicated screen capture program such as Greenshot.

2 Release Notes

2.1 Version 1.0.0.50

Release date: August 28th, 2019 – Beta

New features:

- Restored Bluetooth function to operate with SARK-110-ULM.

Notes:

- Requires Windows 8 or higher (it does not work on Windows 7).

2.2 Version 1.0.0.49

Release date: Jan 1st, 2019 – Beta

New features:

- Added capability for a secondary chart in Scalar mode. Select <View> <Secondary Chart> and the desired combination of parameters in the combo box.

Enhancements:

- Adjusted frequency presets.

2.3 Version 1.0.0.48

Release date: Nov 29th, 2018 – Beta

Bug fixes:

- Network communication not working in 1.0.0.47.

2.4 Version 1.0.0.47

Release date: Nov 18th, 2018 – Beta

Changes:

- Support for the Bluetooth Low Energy interface was eliminated, as it does not work very reliably on the Windows platform. This function will be restored as soon it is found the way to make it work properly.
- Recovered the Windows 7 support due to the removal of the Bluetooth function.

2.5 Version 1.0.0.46

Release date: Oct 26th, 2018 – Beta

Bug fixes:

- End of the plot data gets cut off if the span is close to the number of points.
- Incorrect cursor data display after changing the number of points.

Notes:

- Requires Windows 8 or higher (it does not work on Windows 7).

2.6 Version 1.0.0.45

Release date: Oct 21st, 2018 – Beta

Enhancements:

- TDR Mode:
 - Added capability for setting the number of measurement points for cable test mode; select <Settings><Parameters><TDR><Num. Points> to access to the setting. Reducing the points speeds up the scan speed but changes the resolution of the measurements.
 - Performed improvements in the processing algorithm, which are more noticeable for short cable lengths.
 - Distance readings now with two decimal points for all elements.

Notes:

- Requires Windows 8 or higher (it does not work in Windows 7).

2.7 Version 1.0.0.44

Release date: July 29th, 2018 – Beta

Bug fixes:

- Truncated VSWR line in printout feature in some computers.

Notes:

- Requires Windows 8 or higher (it does not work in Windows 7).

2.8 Version 1.0.0.43

Release date: July 20th, 2018 – Beta

Bug fixes:

- Fixed the problem with the print feature, apparently in newer computers, where the right side of the screen becomes truncated.

Notes:

- Requires Windows 8 or higher (it does not work in Windows 7).

2.9 Version 1.0.0.42

Release date: July 15th, 2018 – Beta

Enhancements:

- Auto Save function allows specifying a file with a sequence of frequencies to scan. Select the file in Auto Save group box in the Parameters dialog box (menu Settings). The file format is the same as the one for the presets.
- Thicker plot traces.
- Shows |Z| in TDR measurements (cursor and when hovering over step trace).

Notes:

- Requires Windows 8 or higher (it does not work in Windows 7).

2.10 Version 1.0.0.41

Release date: March 17th, 2018 - Beta

Enhancements:

- Added Excel and Touchstone file export capability to Auto Save.
- New function to capture the envelope of the reflection coefficient and export to a file.
- Added the setting '24' to Average
- Added the network communication option, so the SARK-110 can be controlled remotely if connected to another computer (e.g. a Raspberry Pi)

Notes:

- Requires Windows 8 or higher (it does not work in Windows 7).

2.11 Version 1.0.0.40

Release date: June 24th, 2017 - Beta

Enhancements:

- Three options of band plans plus a user configurable via input file: <Settings> <Parameters> <Band Plan>.

2.12 Version 1.0.0.39

Release date: June 23rd, 2017 - Beta

New features:

- Added the possibility to display the band plans; select <Settings><Band Plan>

2.13 Version 1.0.0.38

Release date: June 19th, 2017 - Beta

Bug fixes:

- Inaccurate plots after changing span in continuous mode –required selecting Stop and then Run to recover.

2.14 Version 1.0.0.37

Release date: Feb 22nd, 2017 - Beta

Enhancements:

- Added to the printouts the date/time and the file name.

2.15 Version 1.0.0.36

Release date: Aug 7th, 2016 - Beta

Enhancements:

- Changed lower limit for number of points from 100 to 1

2.16 Version 1.0.0.35

Release date: July 17th, 2016 - Beta

Enhancements:

- Auto save can save now in .S1P format

2.17 Version 1.0.0.34

Release date: July 14th, 2016 - Beta

New features:

- Auto save feature
- Configurable delay on continuous run mode
- Beep for start and end of sweep
- Dialog box for selecting the device if multiple devices are connected to the same PC

Enhancements:

- Removed decoration frame around charts
- Displays device disk volume label in status line

2.18 Version 1.0.0.33

Release date: April 23th, 2016 - Beta

New features:

- Plots for admittance (Y), conductance (Gp) and susceptance (Bp).
- Admittance Smith chart.

Enhancements:

- Changing frequency in File mode will not reset the plots, therefore allowing zooming.
- Increased the number precision of several readings.
- Load markers 1 and 2 position from presets file.

2.19 Version 1.0.0.32

Release date: April 8th, 2016 - Beta

Bug fixes:

- Preset did not reset the plot when in File mode.

2.20 Version 1.0.0.31

Release date: April 4th, 2016 - Beta

Bug fixes:

- Set Scales: fixed exception when setting invalid range (min >= max).

2.21 Version 1.0.0.30

Release date: January 24th, 2016 - Beta

New features:

- Added <Settings><Average> (average filter). Requires firmware version v0.8.6.15 or higher.

Bug fixes:

- Exception when the sweep span is set to a value lower than the number of points.

2.22 Version 1.0.0.29

Release date: November 29th, 2015 - Beta

New features:

- Added configurable constant-Q eye to the Smith Chart.
- Added Export feature:
 - Text (comma delimited)
 - Excel
 - Touchstone s1p
 - Screenshot

2.23 Version 1.0.0.28

Release date: July 26th, 2015 - Beta

Enhancements:

- Just changed image in About box.

2.24 Version 1.0.0.27

Release date: June 27th, 2015 - Beta

Bug fixes:

- Unhandled exception during the loading of the program. This could happen after upgrading from an old version of the program due to differences in the configuration settings file.

2.25 Version 1.0.0.26

Release date: May 31st, 2015 - Beta

Enhancements:

- Added the capability to change default frequency presets. Uses the same file format as the used for the firmware “presets.txt”. Select the options available in group box

<Settings><Parameters>[Frequency Presets] to select the file or reset to default values.

- TDR mode:
 - Removed the upper graph (Rho) because it had little utility, so improving the legibility of the TDR chart
 - Configurable Impulse and Step scales
- Added sweep progress bar in the status line

2.26 Version 1.0.0.25

Release date: March 21th, 2015 - Beta

New features:

- New Zoom feature in TDR mode.
- Added setting for selecting units in meters or feet

Bug fixes:

- Max and Min checkboxes not working properly when changing between Scalar and TDR modes.
- Scalar chart X axis not initialized properly
- Single/continuous mode not persisting correctly

Notes:

- Changed the code to check frequency limits in Frequency Control group

2.27 Version 1.0.0.23

Release date: March 1st, 2015 - Beta

Bug fixes:

- Overlap of windows controls in main window when the operating system is configured to “Medium – 125%” size of text and all items.

2.28 Version 1.0.0.22

Release date: Feb 13th, 2015 - Beta

Enhancements:

- File Open/Save did not remember the last used path.

2.29 Version 1.0.0.21

Release date: Jan 30th, 2015 - Beta

New features:

- Added the capability to take snapshots of the traces to allow easy comparison of data.

2.30 Version 1.0.0.20

Release date: Jan 17th, 2015 - Beta

Enhancements:

- Supports firmware version with 5 kHz lower frequency range.

2.31 Version 1.0.0.19

Release date: Jan 5th, 2015 - Beta

Enhancements:

- Changed Polar Chart by Smith Chart format.

2.32 Version 1.0.0.18

Release date: Jan 3rd, 2015 - Beta

New features:

- Added Print capabilities.

2.33 Version 1.0.0.17

Release date: June 26th, 2014 - Beta

Enhancements:

- Added 60M band preset.
- New cable presets.

Bug fixes:

- Fix exception when right axis is set to none.
- Fix issues in cursor positioning when changing the number of points.

2.34 Version 1.0.0.16

Release date: January 28th, 2014 - Beta

New features:

- Added the ability to configure the number of points per sweep: <Settings> <Parameters> <Num. Points>

Bug fixes:

- Frequency units not displayed correctly: MHz instead Hz

2.35 Version 1.0.0.15

Release date: January 24th, 2014 - Beta

Enhancements:

- Reduces CPU consumption
- Possibility to disable traces in Scalar mode
- Additional decimal precision digit for presented values
- Added decimal digit for distances in TDR mode

2.36 Version 1.0.0.14

Release date: January 20th, 2014 - Beta

Enhancements:

- Change presentation of marker and cursor values to show active traces values
- Added cable loss parameter “CL” to measure insertion loss of cables

Bug fixes:

- Fix for “Unable to load DLL ‘SARK110_DLL.dll’ issue in some machines.
- Markers values not shown at startup in Plot Chart mode.

2.37 Version 1.0.0.13

Release date: November 13th, 2013 - Beta

Enhancements:

- Implemented compatibility with the Cable Test mode “.tdr” files, supported by the firmware versions starting from release v0.8.0.16

2.38 Version 1.0.0.12

Release date: October 23rd, 2013 - Beta

Bug fixes:

- Fixed exception when the start frequency is higher than stop frequency.

2.39 Version 1.0.0.11

Release date: August 1st, 2013 - Beta

Bug fixes:

- Fixed exception ""Width must be greater than 0px".

2.40 Version 1.0.0.10

Release date: June 7th, 2013 - Beta

Bug fixes:

- Rewrote communication module (implemented Win32 native SARK110_DLL.dll).
Improves sweep speed.

2.41 Version 1.0.0.9

Release date: June 1st, 2013 - Beta

Bug fixes:

- Solves compatibility problem with Windows XP (System Exception)

2.42 Version 1.0.0.8

Release date: June 15th, 2013 - Beta

New features:

- Added the Matching Networks tool

2.43 Version 1.0.0.7

Release date: June 2nd, 2013 - Beta

New features:

- Added the Subtract or Add a Transmission Line tool

2.44 Version 1.0.0.6

Release date: May 18th, 2013 - Preview

First preview release including scalar chart, polar chart, and TDR mode.

3 License Agreement

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