Silicon Explorer Software Version 5.3 Release Notes

This release of Silicon Explorer software offers additional features and performance enhancements for users of Silicon Explorer II and older Silicon Explorer I debug hardware. This release of Silicon Explorer software has been expanded to include support for the newest member of the RTAX-S radiation tolerant family – the RTAX4000S. Designed specifically with space applications in mind, the RTAX4000S offers densities up to 500 K ASIC gates or 4 M system gates.

Silicon Explorer II, an easy-to-use integrated verification and logic analysis tool for the PC, accesses the probe circuitry. Silicon Explorer II allows designers to complete the design verification process at their desks.

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Supported Platforms

For information about supported platforms, see the Microsemi website.

Minimum System Requirements

- Pentium 133 or higher (Pentium 200 or higher recommended) processor
- 16 MB of available memory for use
- 50 MB of available hard disk space
- VGA or higher-resolution video adapter (SVGA 256-color and 800x600 or higher resolution recommended)
- You must have administration rights to the local workstation for installation purposes.

Device Support

- Support for all Antifuse Families
- Support for Axcelerator devices

New Features and Enhancements

- Validated support on Win7 (32-bit and 64-bit) and Win8.1 (64-bit)
- **SAR69359**: Software crashes when loading specific probe file for RTAX4000s device

Known Issues and Workarounds

- Signals in Axcelerator devices can only be probed for speeds of 28 MHz or less.

- **SARno21399**: Synchronous capture does not work for Silicon Explorer II, but works for Silicon Explorer I.

- **SARno31675**: FPGA Checksum Read back: When reading the checksum of an FPGA with Silicon Explorer, the Explorer window may go into a "confused" state where the "Acquire / Auto Run" button and the "Stop" button randomly toggle.
  Workaround: When the software is in this "confused" state, click the "Acquire" button, then click the "Stop" button. This releases the software from the "confused" state.

Download Software

- Silicon Explorer v5.3 (3.1 MB)

Product Support

Microsemi SoC Products Group backs its products with various support services, including Customer Service, Customer Technical Support Center, a website, electronic mail, and worldwide sales offices. This appendix contains information about contacting Microsemi SoC Products Group and using these support services.

Customer Service

Contact Customer Service for non-technical product support, such as product pricing, product upgrades, update information, order status, and authorization.

    From North America, call **800.262.1060**
    From the rest of the world, call **650.318.4460**
    Fax, from anywhere in the world **650. 318.8044**

Customer Technical Support Center

Microsemi SoC Products Group staffs its Customer Technical Support Center with highly skilled engineers who can help answer your hardware, software, and design questions about Microsemi SoC Products. The Customer Technical Support Center spends a great deal of time creating application notes, answers to common design cycle questions, documentation of known issues and various FAQs. So, before you contact us, please visit our online resources. It is very likely we have already answered your questions.

Technical Support

For Microsemi SoC Products Support, visit http://www.microsemi.com/products/fpga-soc/design-support/fpga-soc-support.

Website

You can browse a variety of technical and non-technical information on the Microsemi SoC Products Group home page, at http://www.microsemi.com/soc/.

Contacting the Customer Technical Support Center

Highly skilled engineers staff the Technical Support Center. The Technical Support Center can be contacted by email or through the Microsemi SoC Products Group website.

Email

You can communicate your technical questions to our email address and receive answers back by email, fax, or phone. Also, if you have design problems, you can email your design files to receive assistance. We constantly monitor the email account throughout the day. When sending your request to us, please be sure to include your full name, company name, and your contact information for efficient processing of your request.

The technical support email address is soc_tech@microsemi.com.

My Cases

Microsemi SoC Products Group customers may submit and track technical cases online by going to My Cases.

Outside the U.S.

Customers needing assistance outside the US time zones can either contact technical support via email (soc_tech@microsemi.com) or contact a local sales office. Sales office listings can be found at www.microsemi.com/soc/company/contact/default.aspx.

ITAR Technical Support

For technical support on RH and RT FPGAs that are regulated by International Traffic in Arms Regulations (ITAR), contact us via soc_tech_itar@microsemi.com. Alternatively, within My Cases, select **Yes** in the ITAR drop-down list. For a complete list of ITAR-regulated Microsemi FPGAs, visit the ITAR web page.

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