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Find the *American Arium SC-1000A* at our website: ***Click HERE***

Product Profile

SC-1000A EMULATOR

THE SC-1000A REPRESENTS ONE OF AMERICAN ARIUM'S LATEST INTEGRATED DEBUG SOLUTIONS FOR ASICS AND ASSPS WITH ARM® - ARCHITECTURE CORES. THIS POWERFUL EMULATOR, WHICH OPERATES ON MICROSOFT® WINDOWS® AND LINUX PLATFORMS, SUPPORTS THE ARM® EMBEDDED TRACE MACROCELL (ETM) AND INTEL® XSCALE™ REAL TIME TRACE. IT FEATURES FIRST-OF-ITS-KIND TRACE COMPRESSION TECHNOLOGY THAT INCREASES TRACE DEPTH EXPONENTIALLY. COUPLED WITH SUPERB CODE MANIPULATION AND REAL TIME EVENT MANAGEMENT, THE SC-1000A OFFERS EXCEPTIONAL FUNCTIONALITY OF AND SUPERIOR VISIBILITY TO YOUR EMBEDDED SOFTWARE.

ARM JTAG DEBUG SUPPORT

- Non-intrusive debug
- Real time operation
- RealMonitor™ support
- High speed downloads
- Exceptional breakpoint control
- Semihosting support
- PLD programming
- Flash programming
- XScale trace



ARM ETM DEBUG SUPPORT

- ETM trace:
  - 4 M samples (4-bit trace port)
  - 2 M samples (8-bit trace port)
  - 1 M samples (16-bit trace port)
- Patent-pending trace compression increases samples up to 30 times standard ETM trace depths to provide up to 60 M samples
- Up to 300 MHz trace capture in half clock mode (150 MHz in full clock)
- Supports all ETM trace configurations
- Handles trace stoppage without stopping processor
- Supports all ETM triggering modes
- Offers selectable timestamp resolution down to 10 ns

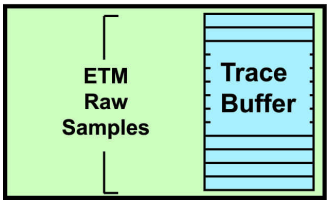
DESIGNED FOR ARM7/ARM9, INTEL XSCALE, AND TI OMAP CORE ARCHITECTURES:

- Supports full instruction set for all ARM7™-based and ARM9™-based cores.
- Supports full instruction set for all Intel® XScale™ processors, as well as TI OMAP™ processors.

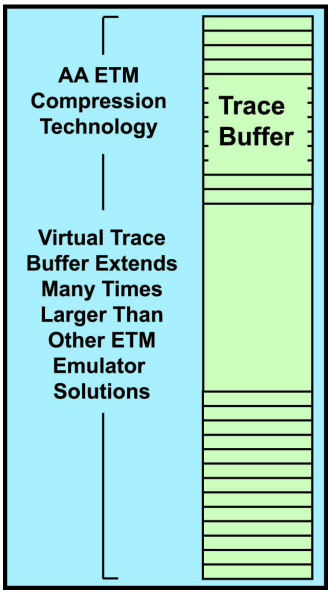
TOOLCHAINS SUPPORTED:

- ARM ADS 1.1 and 1.2
- ARM RealView™ Developers Suite
- Green Hills® C/C++ (DWARF2)
- GNU C/C++

Typical ETM Trace



SC-1000A ETM Trace

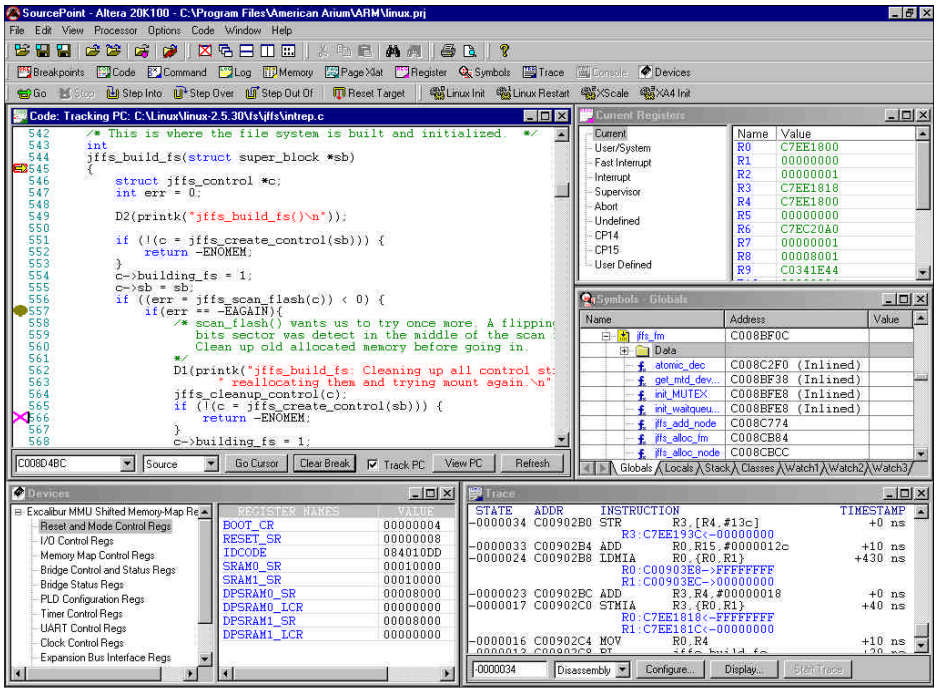


KEY BENEFITS

- **POWERFUL** - The SC-1000A offers outstanding real time debug, including unparalleled trace depth for easier detection of software and firmware bugs.
- **INTEGRATED & INTUITIVE** - The SC-1000A, with its companion software debugger, delivers a highly integrated, intuitive environment designed to help you minimize iterative steps and shorten your debug cycle.
- **USER-FRIENDLY** - The SC-1000A is easy to install and configure. Downloads are fast. And the debugging solution is reliable.
- **FLEXIBLE** - The SC-1000A works with multiple ARM-architecture cores on both Microsoft Windows and Linux platforms. Unlike some debuggers, you don't need a different emulator for each processor type.
- **FULLY SUPPORTED** - All Arium units produced for the embedded market are fully supported by our highly trained staff of applications engineers.

american arium

SC-1000A EMULATOR



SOURCEPOINT™ INTERFACE

Included with the SC-1000A is American Arium's SourcePoint debugging software. The debugger interface is part of the company's core technology, developed specifically for SoC design and debug. The 32-bit application runs on Microsoft® Windows® NT/2000/XP and Linux platforms.

Key features include:

- Integrated, real time, deep trace
- Performance analysis without a compiler
- SourcePoint IDE
- Customizable views
- Handy symbols finder
- Robust, user-friendly command language
- Single view of all I/O-mapped devices
- Multi-core debugging
- Sophisticated scripting language
- Support of multiple file formats

SPECIFICATIONS

Environmental

32-90^{O} F (0-31^{O} C)
Maximum humidity - 85%

Communications

10/100Base-T ethernet
USB 1.1

Download Speed

>200 KBytes/sec

BNC Trig In

>50 Ohm, 155 ns maximum delay

BNC Trig Out

50 Ohm, 125 ns maximum delay

Dimensions (in/cm)

(W) 5.45/13.98
(L) 7.56/19.38
(H) 1.98/5.08

PC HOST REQUIREMENTS

- PC host (Intel or AMD processor)
- Microsoft Windows NT 4.0 (SP4 or later)/2000/XP
- SVGA monitor (1024 x 768 or higher)
- 60 MB hard disk space, 128 MB RAM
- 10/100Base-T ethernet or USB 1.1

ORDERING INFORMATION

STANDARD

Includes emulator unit, power supply, documentation, and one year service agreement.

OPTIONS:

SP-1K	SourcePoint debugger
PBD-1KE	38-pin ETM Mictor connector
PBD-1KJ	20-pin JTAG debug connector*
LP-8	Eight-channel logic analyzer pod

OPTIONS:

DPA-2014	20-14 pin JTAG adapter
STAR-1	Extended service agreement

*14-pin JTAG debug connection available with DPA-2014 adapter

THE COMPANY

American Arium has been a major supplier of emulator debugging tools for more than 20 years, servicing both the embedded and PC markets. Arium hardware-assisted solutions support Intel® XScale™, TI OMAP™, and ARM®-based processor cores, as well as Intel® Pentium™-based processors.

American Arium's mission is to meet and exceed the needs of firmware and software developers by providing them with the right tools to help them minimize their debug cycle.

It's Hard to Compete Without the Right Tools

14811 Myford Road, Tustin, CA 92780 Voice: 877-508-3970 toll free in the US or 714-731-1661 outside the US Fax: 714-731-6344 E-mail: info@arium.com Web: www.arium.com
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