ARM® DSTREAM

Debug and Trace Adapter

ARM DS
Development Tools

http://ds.arm.com/ds-5/debug/dstream/

The ARM® DSTREAM High-Performance Debug and Trace unit enables powerful software debug and optimization on any ARM processor-based hardware target.

With features such as accelerated hardware bring-up for many development platforms and open debug interface for use with third-party and custom tools, DSTREAM paired with DS-5 Development Studio is a comprehensive solution for development and debug of complex SoCs based on an ARM Core.

DSTREAM ships with powerful software utilities to assist with SoC bring-up and hardware validation.

A low-level RDDI connection to DSTREAM can be used to gain access to the JTAG scan-chains inside the target device. This enables the unit to be used for simple tasks such as production testing.

Features	DSTREAM
Debug & Trace	
• Serial Wire Debug (SWD)	✓
• JTAG	✓
• CoreSight	✓
Supported ARM architecture	
• ARM v4 to v8	✓
Interface Vref	1,0V - 5,0V (configurable by target)
Target Connector	
• 14-pin & 20-pin	ARM JTAG
• 14-pin	TI OMAP
• 10-pin & 20-pin	CoreSight
• 38-pin	MICTOR
• 34-pin	MIPI
• 60-pin	MIPI via adaptor
Order Code	
• DSTREAM DEBUG & TRACE UNIT	DSTRM-KT-0181A
• DSTREAM High-Speed Serial Trace	DSTRM-KT-HSSTA
• DSTREAM and HSSTP Probe Bundle	BUNDS-KT-DSHSS

Debug and Trace

- 4GB trace buffer for extended trace capture
- Parallel Trace up to 9.6 Gbps
- Serial Trace up to 20 Gbps with HSST- Probe
- Download speed up to 2.5MB per second
- JTAG clock up to 60 MHZ
- Flexible architecture to support 3rd party
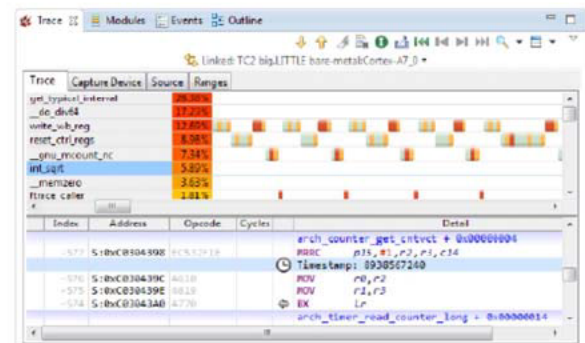
Trace visualization displays instructions executed, or a representation of memory accesses, branch instructions and other

Related Products

- ARM® DS-5 Development Studio
- ARM® DS-5 Development Studio Vendor Edition

www.arm.com