

Tanto ARM

Test and Analysis Tool



Highlights

General Features

- For ARM7, ARM9 and ARM10
- Full JTAG debug support of the on-chip EmbeddedICE™ debug logic and ARM RealTime Monitor™
- Total support of the Embedded Trace Macrocell
- Compilers supported include ARM Developer Suite, Green Hills, ARM GNU ToolChain, Metaware
- RTOS support

Tanto Base

- Serial, Ethernet or USB host connection
- Run controls include run, halt, single step, line step, breakpoints and watchpoints
- Trigger-out and trigger-in external signals
- Uses HiTOP, a full-featured user interface

Tanto Port Trace

- 1M frames trace depth
- 32 channel trace width
- Four triggers, each with a counter, 4-level sequencer and qualified trace recording
- Time stamping at 10 ns
- Up to 200 MHz supported
- Up to 8 external I/O signals

Product Information

Tanto ARM is a new modular and configurable test and analysis tool designed for ARM based ASICs and ASSPs with on-chip debugging support. Modules making up the system are universal in the sense that they can be used with other microcontroller architectures. The entry-level product, Tanto Base, which is itself a high performance debugging system, can be expanded by the Tanto Port Trace module to a debugger with port trace facilities, or it can be used as the base for an emulation system with full adaptation by adding the Tanto Bus Link and optional Tanto Bus Trace modules.

Tanto Base and Tanto Port Trace

Tanto Base is the brain of the entire system. Equipped with high-speed communication interfaces and a high performance 32-bit microcontroller, it is one of the fastest JTAG- and BDM-debuggers around. Additional programmable hardware is included for

the high-speed serialization of JTAG or BDM commands.

Tanto Port Trace allows examination of the application in real-time and the tracing of program flow and data accesses. It records all trace information transmitted by the Embedded Trace Macrocell, including details on program flow, branches, accesses to selected variables and information on task switching in real-time operating systems.

HiTOP User Interface

The Tanto System makes use of the HiTOP user interface. This Windows based software is extremely user friendly and full of useful features for the developer, including complete HLL debugging, rapid access to all in-circuit emulator resources such as trace, trigger, sequencer, performance analysis, coverage, memory mapping and setup of the target system. Other features include flexible object file handling, a built-in command language and RTOS support. Integration with 3rd party tools is also supported.

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Main Office Germany

Greschbachstraße 12 Tel. +49-721-9628-0
D-76229 Karlsruhe Fax +49-721-9628-149
E-mail sales@hitex.de

Hitex UK

Warwick University Tel. +44-24-7669-2066
Science Park Fax +44-24-7669-2131
GB-Coventry CV4 7EZ E-mail info@hitex.co.uk

Hitex USA

710 Lakeway Drive, Tel. 800-45-HITEX
Suite 280 Tel. +1-408-733-7080
Sunnyvale, CA94085 Fax +1-408-733-6320
E-mail info@hitex.com

Detroit Office

30700 Telegraph Road, Tel. +1-248-988-8870
Suite 1540 Fax +1-248-988-8872

Hitex Asia

25 International Tel. +65-566-7919
Business Park, #04-62A Fax +65-563-7539
German Centre E-mail
Singapore 609916 sales@hitexasia.com.sg

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