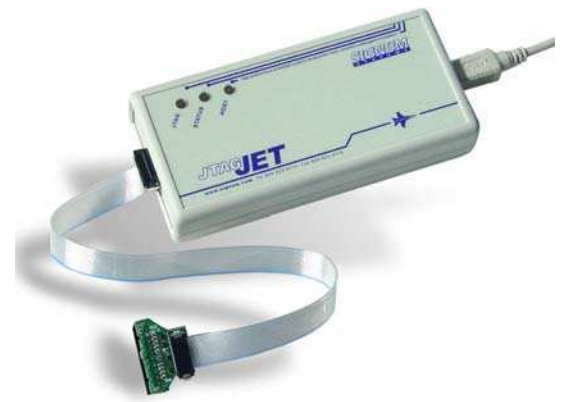


JTAGjet Emulator

for TI DaVinci, OMAP, TMS470, DM, C6000, C5000 & C2000 DSPs



JTAGjet™ is a small, universal In-Circuit Debugger that connects to targets via a JTAG port. It is equipped with USB 2.0 port and runs at 480 Mb/sec. JTAGjet-Trace has the same features as JTAGjet but contains the ARM ETM real-time trace capture with up to 18 MBytes of memory.

Windows and Linux Support

JTAGjet is compatible with Linux and Windows workstations, making it an ideal tool for development of embedded Linux, WinCE and other RTOS based applications.

Concurrent Debugging

One of the unique JTAGjet features is that it may be used with TI CCS and all major ARM debuggers concurrently, providing a true multi-core, multi-debug development system and replacing the XDS510 and XDS560 emulators.

Support for DSP, DaVinci, TMS470 & 570

JTAGjet supports all Texas Instruments DSP, ARM7, ARM9, ARM11 and Cortex based devices.

Compatible with All Major IDEs

- ARM Ltd ADS & RealView
- Eclipse
- eSOL eBinder
- GNU GDB
- GHS Multi
- IAR EWARM
- Keil RealView MDK-ARM
- Mentor Graphics EDGE
- TI Code Composer Studio
- Signum Chameleon

Smart Flash Programmer

JTAGjet comes with a Flash Programmer that can recognize the type and geometry of the device and automatically configure the proper algorithm. Hundreds of NOR & NAND Flash devices are supported as well as any on-chip internal Flash in the TMS470, TMS570 and C2000 devices.

JTAG Chain Device Detection

JTAGjet automatically detects all devices on the JTAG chain to properly configure the debugger. It also detects target power and target resets. That is why it is perfect for debugging the power-on/off and reset conditions, informing user about the state of target at all times.

Programmable and Adaptive JTAG Clock

JTAGjet supports ARM cores with Adaptive Clock and can vary the JTAG clock frequency from 1 kHz (for slow FPGA prototypes) to 30 MHz for faster downloads and quicker Flash programming.

Auto-sensing JTAG voltage

JTAGjet supports detachable target headers to accommodate various JTAG pinout standards and voltages between 1.8V and 5V.

JTAGjet Features

- Compatible with CCS 3.x/4.x and all major ARM debuggers
- Replaces the older XDS510 and XDS560 DSP emulators
- Concurrent multi-core debugging with CCS and other debuggers
- Super fast code downloads of up to **1 MBytes/sec**
- Optional real-time trace for devices with **ETM** port
- Optional real-time trace display for devices with **ETB**
- Fully compatible with **FLASH470** programming utility
- On-chip and off-chip **Flash Programmer** (GUI or API)
- Supports **GSM, GPRS, CDMA** cell phones based on ARM cores
- Automatic **processor initialization** on power-up or reset (memory mapping, peripheral setting, MMU, WD disable etc.)
- Optional, fully isolated JTAG probe
- Active JTAG probes to support the TI-14, cTI-20, ARM-20, ARM-14, Mictor-38 and Cortex pin debug headers
- Windows 7, XP and Vista compatible.

JTAGjet-Trace Features

- Up to 400 Ms/s trace acquisition (400 MHz maximum CPU speed)
- Supports all ARM7, ARM9, OMAP and DM devices equipped with the Embedded Trace Macrocell (ETM) logic that allows PC execution and data variables tracing in real-time.
- Auto adjusting timing eliminates problems with data and clock skew
- Available with 2M and 4M frames deep trace buffer
- 56-bit time stamp with CPU cycle accuracy down to 5 ns
- Easy access to all ETM modes, triggers and trace filtering
- Small form factor - fits in the palm of your hand
- Quiet operation – no fans, no external heat sinks
- Only one connection to target – both JTAG and trace are taken from one ETM connector
- Includes ETM to JTAG adapter for targets with plain JTAG port

Chameleon Debugger™ for ARM

Each JTAGjet-OMAP, DaVinci, TMS470 and TMS570 emulator is bundled with Chameleon Debugger™ for ARM. Chameleon Debugger is a high-end, full-featured, **multi-core debugger** which features macros for automated board initialization and testing, fly-over variable pop-ups in source window, drag-and-drop between windows, Graphical Event Triggering and hundreds of other time saving debug features. It is available as an option on other JTAGjet models.



1211 Flynn Rd., #104, Camarillo, CA 93012
Phone: (805) 383-3682
Fax: (805) 383-3685
Web: www.signum.com

Distributed by:

JTAGjet Emulator

for Sitara, DaVinci, OMAP, DM, C6000, C5000 & C2000 DSPs



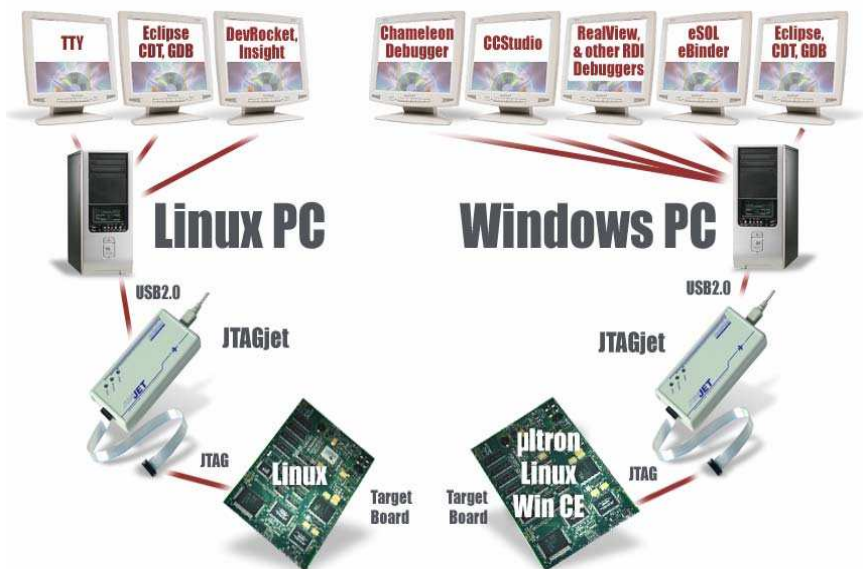
| Specifications | JTAGjet-CCS | JTAGjet-OMAP3 | JTAGjet-DaVinci | JTAGjet-Trace-OMAP |
|-------------------------|-------------------------|--|--|--|
| Comm. Port / Speed | USB 2.0 / 480 Mbps | USB 2.0 / 480 Mbps | USB 2.0 / 480 Mbps | USB 2.0 / 480 Mbps |
| Current Draw | 0.3A (powered by USB) | 0.3A (powered by USB) | 0.3A (powered by USB) | 0.8A (ext. power adapter) |
| Dimensions (inches) | 5.6L x 2.6W x 1.2H | 5.6L x 2.6W x 1.2H | 5.6L x 2.6W x 1.2H | 5.6L x 2.6W x 1.2H |
| Max. JTAG / CPU Clock | 30 MHz / no limit | 30 MHz / no limit | 30 MHz / no limit | 30 MHz / 400 MHz |
| Probe Length | 8 inch, active probe | 8 inch, active probe | 8 inch, active probe | 6 inch, passive probe |
| JTAG / ETM voltage | 3.3V - 5V , 1.8V - 3.3V | 3.3V - 5V , 1.8V - 3.3V | 3.3V - 5V , 1.8V - 3.3V | 1.8V - 3.3 V |
| Target connection | 14-pin TMS320 pinout | 20-pin ARM pinout & cTI-20 | 14-pin TMS320 & cTI-20 | 38-pin Mictor ETM pinout |
| Debuggers supported | CCS 3.x / 4.x | eBinder, CCS 3.x/4.x, all major ARM debuggers, Linux GDB | eBinder, CCS 3.x/4.x, all major ARM debuggers, Linux GDB | eBinder, CCS 3.x/4.x and all major ARM debuggers |
| Targeted family support | CCS supported devices | OMAP34xx,36xx,35x, DaVinci | DaVinci, DM, OMAP, etc. | OMAP, devices with ETM port |
| Included in package | CCS drivers only | CCS drivers, Chameleon for ARM7/9/11/Cortex devices | CCS drivers, Chameleon ARM7/9 debugger | 4M deep trace, CCS drivers, Chameleon ARM7/9/11 debugger |

JTAGjet Device Compatibility

| ARM Cores Supported | TI ARM Support | TI DSP Support |
|---------------------|----------------------|----------------|
| ARM7EJ-S | TMS470, TMS570 | TMS320VC33 |
| ARM7TDMI | DSC21, DSC25 | TMS320F24x |
| ARM7TDMI-S | DM270, DA295 | TMS320F28x |
| ARM710T/720T | DM310, DM320 | Piccolo™ |
| ARM740T | DM331, DM342 | Delfino™ |
| ARM9TDMI | DM350, DM355 | TMS320C54xx |
| ARM920T/922T | DM420, DM642 | TMS320C55xx |
| ARM926EJ | OMAP710, 730, 733 | TMS320C62xx |
| ARM926EJ-S | OMAP750, 850 | TMS320C64xx |
| ARM940T | OMAP1510, 161x | TMS320C67xx |
| ARM946E-S | OMAP1710 | Sitara |
| ARM966E-S | OMAP5903, 05, 10, 12 | |
| ARM968E-S | DaVinci, DM644x | |
| ARM11 | OMAP 2410, 2420 | |
| MPcore | OMAP34xx, 36xx | |
| Cortex-M3/R4/A8 | OMAP35x | |

NOTE: Each JTAGjet can be customized to include support for all DSP, ARM or Cortex devices listed above.

JTAGjet Configurations



Ordering Information : Prices are good in USA & Canada only. Order on-line at www.signum.com/estore.htm

| Part Number | Description | Price |
|--------------------|--|----------|
| JTAGjet-CCS | JTAGjet for OMAP, TMS470, C6000, C5000, C2000 with CCStudio drivers | \$ 995 |
| JTAGjet-OMAP | JTAGjet for OMAP, 470, C6000, C5000, C2000 with Chameleon Debugger and CCStudio drivers | \$ 2,100 |
| JTAGjet-DaVinci | JTAGjet for DaVinci, OMAP, DSPs & TMS470 with Chameleon Debugger and drivers for CCS & eBinder | \$ 2,500 |
| JTAGjet-OMAP3 | JTAGjet for OMAP3, DaVinci and TMS320 DSPs with Chameleon Debugger and drivers for CCS & eBinder | \$ 2,800 |
| JTAGjet-470 | JTAGjet for TMS470 ARM devices with Chameleon Debugger | \$ 1,500 |
| JTAGjet-570 | JTAGjet for TMS570 (dual-core Cortex) with Chameleon Debugger and CCS drivers | \$ 2,500 |
| JTAGjet-Trace-OMAP | JTAGjet for OMAP with 4M deep ETM trace memory, Chameleon Debugger and CCS drivers | \$ 5,100 |



1211 Flynn Rd., #104, Camarillo, CA 93012
Phone: (805) 383-3682
Fax: (805) 383-3685

Distributed by: