

ETM JTAG Emulator EJ-Debug for ARM7/9/11



- Works with Code Composer Studio® IDE
 - Supports ARM7TDMI® ARM9TDMI® ARM11*
 - ARM®/Thumb® state debugging supported
 - Set hardware breakpoints on address and status
 - Unlimited software breakpoints
 - Clear, read and program FLASH
 - 512 K-step ETM trace including ETB
 - Available ETM trace up to 200MHz clock
 - 1.8V up to 3.6V target voltage support
 - Perfect for field debugging or maintenance.
 - USB bus powered - No AC adapter required.
 - Pocket sized, 86x101x23mm
 - JTAG pod button runs User macro scripts
 - Perfect for hardware test, small run programming and automatic field upgrades.
 - Fast USB PC interface.
 - EJ-Debug includes Watchpoint® for Windows®
- * Multi-core debugging available as an optional feature.

Specifications

Target CPU	ARM7/9/11 cores from all vendors: ARM11 ARM1156, ARM1136, etc. ARM9 ARM9TDMI, ARM9TDMI-S, ARM910T, ARM920T, ARM940T ARM9E, ARM946E, ARM966E, ARM922, ARM925, ARM926, etc. ARM7 ARM7TDMI, ARM7TDMI-S, ARM710T, ARM720T, ARM740T, etc.
Clock	200 MHz Maximum CPU clock
Target Vcc	Target Vcc from +1.8 V to 3.6 V
Memory & I/O	Entire space is available to the User
Interrupts	Both internal and external interrupts are available to user
Breakpoints and Break Options	Hardware breakpoints 2 hardware breakpoints in ARM7 and ARM9)* Instruction execution address, memory access, data can be specified. 7 hardware breakpoints(ARM11): Instruction execution address(3 points), memory access(2 points), others(2 points) Unlimited software breakpoints Other break options: Forced break from Debug Monitor *ARM7 & 9, Step Over, Step Out, & Run to Cursor functions use one core hardware breakpoint.
ETM Trace + ETB Embedded Trace Macro cell	200Mhz clock support 512 K-step trace memory The following conditions can be specified: Set area start and stop trace triggers Time stamp capability ETB capability
Flash Memory	JTAG target FLASH read, test, clear and programming functions

Configuration

Hardware

The EJ-Debug ETM for ARM7/9/11 system consists of a ARM7/9/11 JTAG pod with a USB to PC interface. This JTAG emulator is for ARM7/9/11 only.

Software

Watchpoint®, a high-level language debugger for Windows® Vista*/XP/2000, is included with the EJ-Debug for ARM7/9/11.

Media

CD-ROM

Supported Tool Chains

Watchpoint supports the following compilers and OS

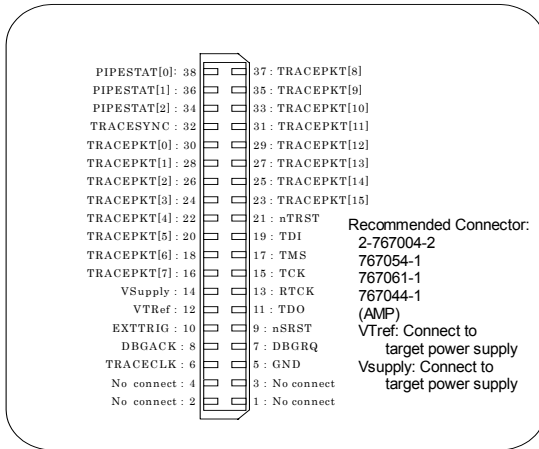
Compilers

TI Code Composer Studio®
 ARM: ADS, SDT, RVCT
 Metaware: High C/C++/EC++ for ARM
 Green Hills: GHS
 GAIO: XCC-V
 GNU:
 IAR: EWARM

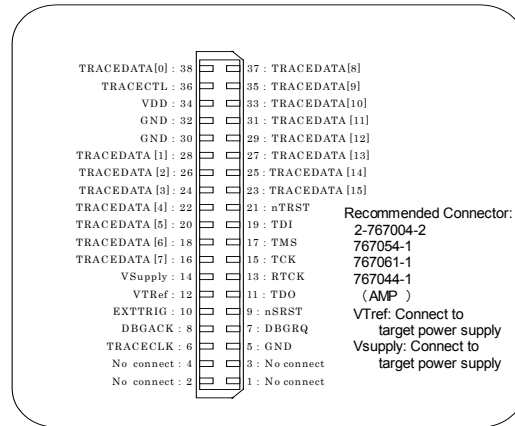
Supported OS

Linux Windows CE™ Symbian OS™
 NORTI G-OS PrKERNEL
 VxWorks ITRON Other

Target JTAG Connections

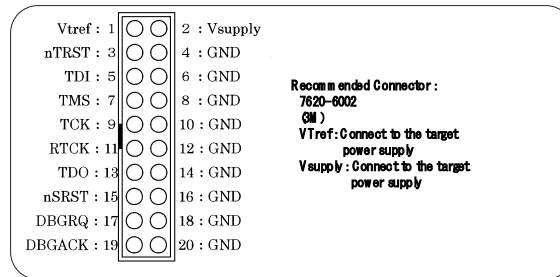


Single ETM Target connector pins for ARM7/9 - Top View



Single ETM connector pins for ARM11 – Top View

JTAG Connector pins – Top View



Ordering Information

Part No.	Description
EJD7201E	JTAG Emulator, EJ-Debug ETM for ARM7/9/11 with USB host interface. Includes Watchpoint® debugger for Windows®XP/2000

System requirements for Watchpoint® Debugger:

OS	Memory	Hard Disk
Windows XP/2000	64 Mbytes	25 Mbytes for installation
Windows Vista	512 Mbytes	25 Mbytes for installation

- Notes: * Vista (32-bit version): driver software update is required.
 * Vista (64-bit version): not supported by current version of Watchpoint.
 * XP (64-bit version): driver software update is required.

Earlier versions of Watchpoint do not support Windows Vista.
 An interim version is available now. Please contact your local Rep/Distributor.

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