

EJ-Debug for SH3-DSP



- ❑ Supports Renesas SH3-DSP series
- ❑ Supports H-UDI interface
- ❑ View and modify the internal peripheral registers
- ❑ 2 hardware breakpoints can be set for address and status conditions
- ❑ Unlimited software breakpoints
- ❑ Download to Flash Memory capability
- ❑ Useful for field debugging or maintenance
 - Powered by USB bus(No AC adapter required)
 - Small size(86mm X 101mm X 23mm)
- ❑ Auto-script execution by BATCH button on the hardware unit
 - perfect use in auto-verification of the target on mass production or for updating new versions
- ❑ USB host interfaces for high-speed communication with host computer
- ❑ Sophia's high-level language debugger, Watchpoint®, is included with all Sophia Systems emulators (Windows®98/Me/2000/XP platforms)

Specifications

| | |
|--------------------------------------|--|
| Target CPU | SH3-DSP series(SH7729, SH7729R, SH7709A, SH7709S, SH7706, SH7727) |
| Target Vcc | Vcc 3.3 V |
| Memory and I/O | Entire space is available to user |
| Interrupts | Both internal and external interrupts are available to user |
| Breakpoints and Break Options | <p>Execution address break options:</p> <ul style="list-style-type: none"> • 2 hardware breakpoints • Unlimited software breakpoints <p>Execution instruction address and memory access can be specified.</p> <p>Other break options:</p> <ul style="list-style-type: none"> ▪ Forced break from Debug Monitor <p><i>Note 1: When Step Over, Step Out, Come to function is in use, release 1 hardware breakpoint.</i></p> |
| Flash Memory | Download to target external Flash memory |

Configuration

The EJ-Debug for SH3-DSP provides a high level of software debugging from your PC/AT or notebook computer.

Hardware

An EJ-Debug for SH3-DSP system consists of the SH3-DSP Probe Set with USB host interface.
(EJ-Debug for SH3-DSP can not be used for other CPUs)

Software

Watchpoint®, a high-level language debugger for Windows®98/Me/2000/XP, is included with the EJ-Debug for SH3-DSP.

Media:

CD-ROM

Supported Tool Chains:

Watchpoint supports the following compilers and supported OS:

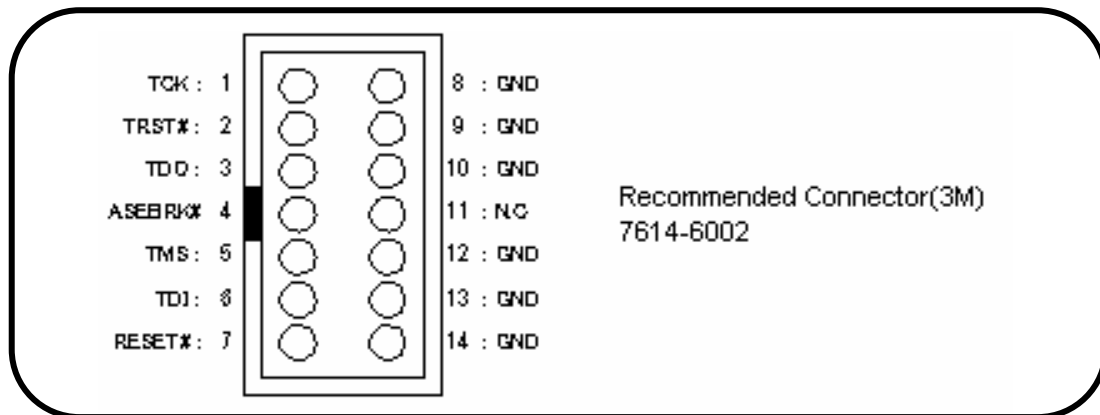
Compiler:

| | |
|-------------|---------------|
| Renesas | SHC |
| Green Hills | GreenHills SH |
| GAIO | XCC-V |
| IAR | EW/S SH |
| GNU | |

Supported OS:

| | | |
|--------|--------|----------|
| HISH77 | HI7700 | G-OS |
| NORTi3 | NORTi4 | PrKERNEL |

Target ICE Connections



14-pin H-UDI connector pin assignment(Top View)

* Contact us about the detail on 36-pin AUD connector

Ordering Information

| Part No. | Description |
|----------|--|
| EJD4001E | Probe Set, EJ-Debug for SH3-DSP with USB host interface and Watchpoint® SH3-DSP debugger for Windows®98/Me/2000/XP |

System requirements for Watchpoint® Debugger:

OS: Windows98/Me/2000/XP **Memory:** 32 Mbyte (64 Mbyte recommended)

Hard Disk: 20 Mbyte for installation

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