

EJ-Debug for SH2-DSP



- ❑ Supports Renesas SH2-DSP series
- ❑ Supports H-UDI interface
- ❑ View and modify the internal peripheral registers
- ❑ Hardware breakpoints can be set for address, data, and status
- ❑ 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	SH2-DSP series (SH7622, SH7615, SH7616, SH7618, SH7619*) * Contact us about other SH2-DSP cores. *1 = Future support
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"> • Hardware breakpoints: Max 4 points for SH7615/16, Max 2 points for SH7622/19/18 Execution instruction address, memory access, data break can be specified. • Unlimited software breakpoints (Not available for ROM) ▪ Other break options: Forced break from Debug Monitor <p><i>Note 1: When the Software Breakpoint, 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 SH2-DSP provides a high level of software debugging from your PC/AT or notebook computer.

Hardware

An EJ-Debug for SH2-DSP system consists of the SH2-DSP Probe Set with USB host interface.
(EJ-Debug for SH2-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 SH2-DSP.

Media:

CD-ROM

Supported Tool Chains:

Watchpoint supports the following compilers and supported OS:

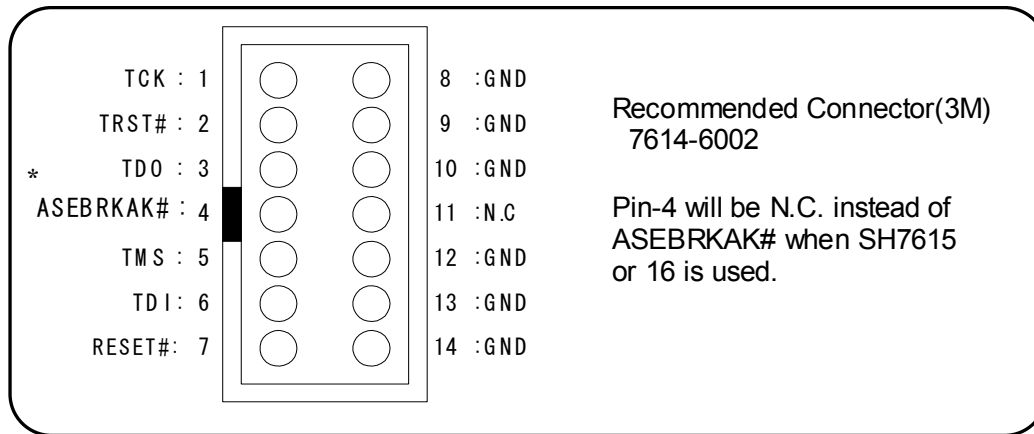
Compiler:

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
EJD4300E	Probe Set, EJ-Debug for SH2-DSP with USB host interface and Watchpoint® SH2-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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