



WATCHPOINT Writer for EJ-SCT SH

EJ-SCT is the first Debugger and ROM writer that has the ability to write directly into Flash ROM via H-UDI/ AUD port while already installed on the User's board via the JTAG port. Its small size (Width 70mm X 108mm, Height 17mm) and versatility make it a perfect solution for use in the field or on the manufacturing line.



- Supports Renesas Technology SH2/3/4 and SH-Mobile series
- Supports H-UDI/AUD interface and C/C++ high level language
- Special writer for Flash memory
- Useful for field maintenance such as upgrading target firmware.
 - Powered by USB bus (No AC adapter required)
 Small size(70mm X 108mm X 17mm)
- Automatic script execution via the WRITE button
 Useful for automatic writing / upgrading in mass production
- USB interface for high-speed communication with host computer
 - * Please confirm your desired CPU type with Sophia Systems.

Specifications

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Supported CPU	SH2/ SH2-DSPseries	(SH7047, SH7083, SH7084, SH7085, SH7086, SH7124, SH7125, SH7144F, SH7145F, SH7146, SH7147, SH7149, SH7615, SH7616, SH7618, SH7619, SH7622),						
RENESAS	SH-2A series	series (SH7201, SH7203, SH7205, SH7206, SH7214, SH7216, SH7261, SH7262, SH7263, SH7264, SH7265, SH7268, SH7269, SH726A, SH726B, SH7285, SH7286)						
	SH3-DSPseries	(SH7729, SH7729R, SH7709A, SH7709S, SH7705, SH7706, SH7710, SH7712, SH7713, SH7720, SH7727)						
	SH-4 series	(SH7750, SH7750S, SH7750R, SH7751, SH7751R)						
	SH-4 A series	SH7723, SH7722, SH7724, SH7730, SH7763, SH7764, SH7770, SH7780, SH7785)						
	SH-Mobile series	SH-Mobile 1(SH7290), SH-Mobile J(SH7294), SH-Mobile V(SH7300), SH-Mobile V2(SH7310), SH-MobileJ3(SH7326)						
	* Please contact Sophia Systems regarding the availability of any other CPU types.							
Power Supply	Vcc 3.3V ^{*1}							
Flash Memory	Memory DUMP capability.							
Write	Data download from files.							
Capability	Over 300 Flash memory types are supported, including regular software updates to include the latest Flash							
	types. Flash memories not included in the supported list may be supported by describing the writing program							
	instruction. By specifying a batch file to write and by using the write button on the unit (hardware) allows for easy							
	writing. Block erase, chip erase capability.							
	 Execution 	Memory						
	- Program execution	on - Download						
	- Forced break	- Upload						
	- Reset	- Fill up/check/copy of memory						
	- Batch program execution - Clear/fill up/download of Flash memory							
Supported	Renesas Technology, Intel, MACRONICS, Sharp, Toshiba, NEC, Sanyo, ATMEL, SST, ST, OKI, SPANSION (Fujitsu, AMD),							
Flash	EON							
manufacturers	*More than 300 Flash memories and memories not included in the list are supported by describing the writing program							
	instruction.							
	* Please contact Sohwa & Sophia Technologies regarding any other Flash types that are not listed in the above.							

NOTE Windows XP Professional / Vista/ 7(32bit/64bit) are supported. If user wants to use Debugger, please purchase WATCHPOINT DEBUGGER.

Contact Sohwa & Sophia Technologies if you have additional Windows OS support questions.

*1. 5v I/O can support if user use option cable for SH-2/SH-2A series

Configuration





JTAG CABLE types:

SH-4/SH-4A (SCP4100) SH2/SH-2A/SH3 (SCP4000)

SH MOBILE

The following compilers are supported for the objects to write into Flash memory.

SHC

Green Hills

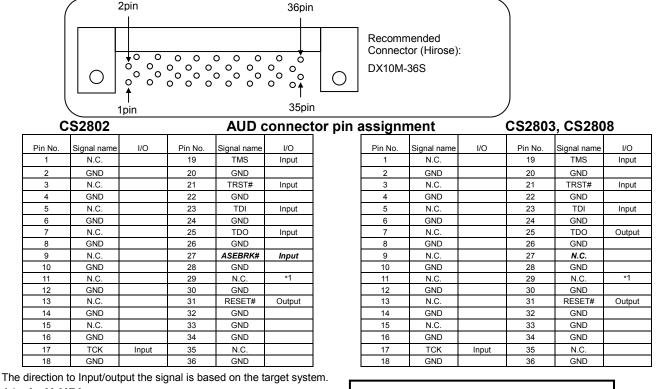
- Renesas
- Green Hills

- IAR

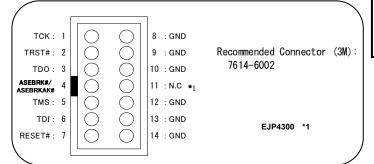
- Gaio Technology XCC-V
 - FW/S SH
- GNU GCC

This product is only for support Renesas Electronics SH-2/3/4 series.

Target Connection



14-pin H-UDI connector pin assignment:



*1 Connect 5V of the target when you use 5V in the					
user power supply to SH-2/SH-2A. Adjust 29					
pins to 5V when target sides are 36 H-UDI					
connector pins.					

Ordering Information

CUSTOMER should PER	Necessary items for Debugger System			Options		
Host PC	CONNECT	JTAG EMULATOR	WATCHPOINT	SUPPORT SERVICE	Optional cable	
	WITH PC	(Hardware)	(software)	(Software updates)		
Windows PC *4	USB2.0/1.1	SCD001	SCS0430E	SSS010	H-UD1 36 pin (for AUD) *2	
		EJ-SCT	WP WRT for EJS SH	Sophia Support Service	H-UD1 14 pin (SCP4300)SCP-SHUVCC *3	

*1. When user use 5V for SH-2/SH-2A series, connect No11 pin with UVCC(5V) for H-UDI 14 pin, connect No29 pin with UVCC(5V) for H-UDI 36 pin.

*2. The below option is nessary for H-UDI 36pin.

SH-4/SH-4A series :CS2802 EJ-SH4-PB-AUD36-AD , SH-2/SH-2A/SH-3/SH-Mobile :CS2803 EJ-SH3-DSP-PB-AUD36-AD ,

SH-2/SH-2A series(5V):CS2808 EJ SH7047-PB-AUD36-UVCCAD

*3. This option is nessary for user use 5V for SH-2/SH-2A series.

*4. HostPC,OS: Windows XP/Vista/7, memory is depend on each PC standard. HD: 100MB for install.

All configurations are subject to change without notice. All other brands & product names are trademarks or registered trademarks of their respective companies.



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