

RoHS compliant

- Small and lightweight . Convenient to carry
The following picture is about the same as full scale. (70mm × 108mm × 17mm)



Silicon grip for protection

EJ-SCT is a development tool of a new era for general-purpose. Replacement of JTAG cables and the additional purchase of software licenses allow hardware support for debugging of all common variations of embedded CPUs. Including flash memory writing of program data.

1

Efficient practical use for development 1. The eco-tool which works by one unit.

Debug all CPU types just by one hardware JTAG unit.

There are software license options for EJ-SCT. New CPU debugging can be done by adding additional software licenses, therefore the cost for new product development can be held down, and a project can be advanced efficiently. Product development quality is proved by using the same hardware and debugging tools. Since the hardware can be re-used, there is no worry about purchasing too many units.

2

Efficient practical use for development. 2. Use as exclusive flash writer.

The stand-alone Flash writing function without a PC.

Use stand-alone flash memory writing without connecting to a Host PC. Write program data to flash memory on your target directly just by pushing a button on the EJ-SCT unit. User-friendly, and can be chained together for factory mass-production flash writing, testing, etc.

3

Shorten your development cycle and raise work efficiency.

Increased tool functionality. Advanced JTAG features with improved speed.

It can transfer 1M byte² mass data in 1 second with highly efficient use of the debug functions. Moreover, the debugger downloads symbol and object data simultaneously. Regarding efficiency, since the User interface software (ie. Debugger) is the same for every embedded CPU type, the developer can keep the knowledge and continue operating the tools using past experience. Time and effort can be saved, and a new project can ramp up immediately.

*1: AC adaptor for stand-alone writer only.

*2: Depends on target and CPU type.



CPU

- ARM Series : 7/9/11/Cortex (A15, A9, A8, R4, M0, M3, M4)
- PXA Series : PXA27x, PXA26x/25x, PXA3xx
- SH Series : SH-4A, SH-4, SH3-DSP, SH-3, SH-Mobile, SH-2A, SH2-DSP, SH-2
- Xtensa Series : T1020, T1030, T1040, T1050, 6, LX, 7, LX2, LX3
Diamond Standard Processors Series
106Micro, 108Mini, 212GP, 232L, 570T, 545CK, 330HiFi, 388VDO
- FR-V Series : FR400series, FR550series
- MeP Series

Functions / Specifications

- Flash memory support. Supports over 300 types.
It is possible to download program from debug receives flash memory on target system. It will add support device one by one form now.
- Support Multi Core (eg. Coretex-A8 + Xtensa)
2 or more CPUs in 1 SOP, different cores, and single core. In-Sync code break and reset for multi core and In-sync code execution is carried out by the WATCHPOINT Debugger.
- High speed download
Objects created in C/C++, and Java language, etc. is download at high speed. Speed-up is realized with structure improvement in the JTAG function, and simultaneous download features, symbol, and the object for 1MB/second of high speed mass data transfer.
- Easy to access source files
WATCHPOINT project window displays in a tree format, so access to source files is easily done.

Size	70(H)mm × 108(W)mm × 17(D)mm
PC I/F	USB
Host PC OS	OS:Windows2000/XP/Vista/7
Supply	USB bus power . AC adaptor(Required because of a stand-alone writer.)
Connect target	JTAG connection.
Download to flash memory	It can write to the flash memory on a target system by downloading from a debugger.
Break Memory space Interrupt	It changes with target CPUs. *For details, please refer to the briefs of each WATCHPOINT.
Connection	It changes with target CPUs. *For details, please refer to the briefs of each WATCHPOINT.

International Business

We provide worldwide sales and technical services and support customers to build common development environment.

Compliance with:

- RoHS
- USA FCC (Class A)
- CE

Support organization

We provide on-going support so that customers who purchased Sohma & Sophia Technologies products can continue development efficiently in comfort.



● Technical support center

Our technical support team is rich with experience. We correspond to all technical inquiries from customers. Our support experience-in-actual-business level is over 20 years. Our experience can help with solving various issues.

● SSS(Sophia Support Service)

Support services has been designed for customer to improve development in comfort. Annual renewal of support services after purchase is recommended.

Main service of SSS(Sophia Support Service)

- Answers technical questions about our products covered by this service via E-Mail and our website.
- It can be downloaded from our website.
- Sends users new version information about our products regularly by E-Mail.

OS Support and Development Environments

WindowsCE, Linux, SymbianOS, TOPPERS, NORTI, VxWorks, G-OS, PrKERNEL, L4μ-kernel, HI, OSE, μC3/Standard, μC3/Compact, Keil RTX, ThreadX, ThreadX-μITRON, UDEOS4, μT-Kernel, μT-REALOS

Compiler support

ARM (DS-5, MDK-ARM), IAR (EW), Intel C++/Software Development Tool Suite, Metaware (High C/C++, EC++), GreenHills(GHS), GAIO (XCC-V), GNU(gcc), RedHat(uClinux gcc), Renesas (SHC, H8C)

Support for additional CPU

● Software licensing

The hardware starts using the WATCHPOINT debugger license for specific CPU family type. Download & installation of software updates is possible during the term of support services. The specific JTAG cable for connection with your target is enclosure with WATCHPOINT. If customer wants to develop an additional CPU type, then please purchase the WATCHPOINT debugger license for the desired CPU type. The main hardware is common, and can be utilized effectively for many projects.

● Guide for purchasing



One common EJ-SCT hardware unit may be used for different types of CPU series



JTAG cable to connect to target board. Select right cable for the target CPU type.

● To purchase your first system:

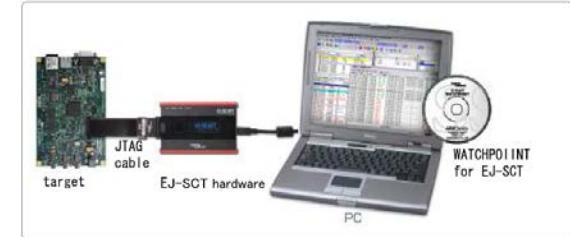
1. EJ-SCT (hardware)
2. WATCHPOINT/software.
3. JTAG cable
4. SSS (Sophia Support Service) for one year

● To purchase additional CPU family types:

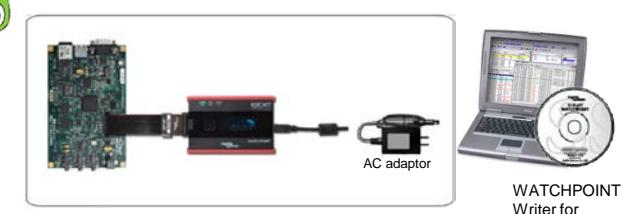
1. WATCHPOINT software for additional CPU type.
2. JTAG cable
3. SSS (Sophia Support Service) for one year

System Configuration

● Setup as a Debugger or Flash writer, powered by USB



● Setup as a stand-alone Flash writer, powered by AC adaptor



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