EJ-SCT

Sophia systems ™

SUPPORT RoHS

■Conveniently small and light weight.
The following picture is full scale. (70mm×108mm×17mm).

USB control and power
No AC adapter*1 needed

The 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 embeded 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 effciently. 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 an 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 bite*2 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 adapter for stand-slone writer only.
*2 Depends on target and CPU type.

CPU

● ARM Series7/9/11/Cortex(A8, R4, M3),OMAP,iMX
● PXA Series
PXA27x, PXA3xx
● SH Series
SH-4A, SH4, SH3-DSP, SH3, SH-Mobile, SH-Mobile3
SH-2A, SH-2, SH2-DSP
● H8SX Series
(Only write function has no debugging function)
● Xtensa Series
T1020, T1030, T1040, T1050, 6, LX, 7, LX2
● Diamond Standard Processors Series
106Micro, 108Mini, 212GP, 232L, 570T, 545CK, 330HiFi, 388VDO

The lastest information for all supported embedded CPU types can be found on our web-site.

Function/Specification

● Flash memory support. Supports over 180 types.
It is able to download program from debug receives flash memory on target system. It will add support device one by one from now.

● Supports Multi core(eg. Cortex-A8+ARM11, ARM+Xtensa)
2 or more CPUs in 1 SOP, different cores, mixed cores, and single core. In-Sync code-break and reset for multi core and in-sync code execution is carried out by the WATCH-POINT Debugger.

● High speed download
Objects created in C/C++, and Java language,etc. is download at high speed. Speed-up is realized with structure improvements in the JTAG function, and simultaneous download feature. Symbol, and the object 1MB/second high speed mass data transfer.

● Easy to access source files
WATCHPOINT project window is hierarchically displayed, so access to source files is easily done.

size	70(H)mm×108(W)mm×17(D)mm
connect to PC, correspond spec	USB
	OS : Windows2000/XP/Vista (32bit version). Can not support Vista64bit version yet.
way of adaper charge	USB path power. AC adapter, in the case of use as stand-alone writer.
connect target	JTAG connection. Please reference target CPU WATCHPOINT product brief.
download to flash memory	can download program from debug directly to flash memory on target system.
break	depend on target CPU.
memory space	※Please reference target CPU WATCHPOINT product brief.
wedge	
connection	depend on target CPU.
	※Please reference target CPU WATCHPOINT product brief for connection details.

International Buisness

14 or more sales offices worldwide. Distributors in North America, Asia, and Europe. We provide worldwide sales and technical support. EJ-SCT corresponds to specification standards, with an English edition and documention.
● RoHS(lead freelancer)
● America FCC(schedule)
● CE(schedule)

Support organization

We provide on-going support so that customers who purchased Sophia products can continue development efficiently and 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 recommanded.

● Main Service of SSS(Sophia Support Service)
We will provide version update information by email periodically.We will support your tech nical inquiry via our Technical support centers. Also,we will support your inquiry via web contact form submission.
Able to download&install lastest software version from our offical web-site.
Sophia support Service cover a 12 month period.
Sophia Support Service purchase is required with initial EJ-SCT hardware unit purchase.

OS Support and Development Environments

Supports:
WindowsCE/Linux/Symbian, TOPPERS/NORTi/VxWorks/G-OS/PrKERNEL/L4μ-kernel/HI/OSE/ITRON, and others.

Compiler support

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

Support for additional CPU.

● Software licensing
The hardware starts using the WATCHPOINT debugger license for a specitic CPU family type. Download & installation of software updates is possible during the term of support services.The specitic 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 lilcense for the desired CPU type. The main hardware is common, and can be , utilized effectively for many projects,

● Guide for purchasing

EJ-SCT hardware is common and independent of CPU type.

JTAG cable for connect to a target CPU type is enclo-sure with the WATCH-POINT software. Hardware is ecology minded.

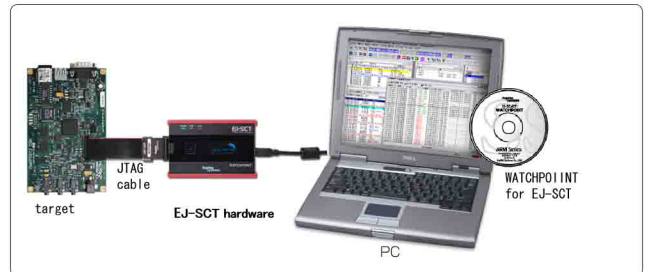● To purchase your first system:
1. Purchase EJ-SCT main body(hardware), 2. WATCHPOINT software, 3. SSS(Sophia support service per-year)
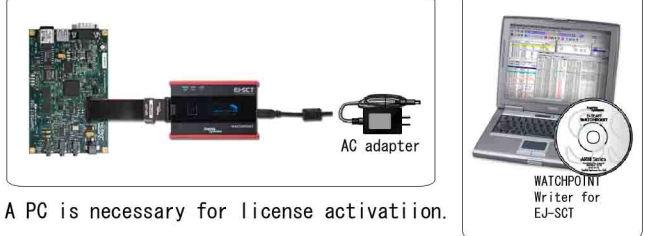● To purchase additional CPU family types:
1.Purchase WATCHPOINT software for additional CPU type. 2.Re-confirm your software Support Service expiration date.

System Configuration

● Setup as Debugger and Flash writer, USB powered

JTAG cable
target
EJ-SCT hardware
PC
WATCHPOIINT for EJ-SCT

● Setup as stand-alone Flash Writer. AC adapter powered.

AC adapter
WATCHPOINT Writer for EJ-SCT

A PC is necessary for license activatiion.

※This data sheet publishes the general information about EJ-SCT.
※Specification and appearance are may change.
※The product and company names used indicate the trademark or registered trademark of each company.

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