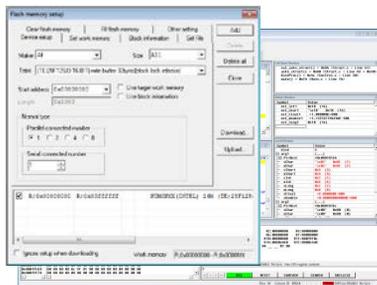


WATCHPOINT Writer for EJSCT ARM



This software is used in combination with our JTAG emulator "EJSCT".



- Small size (70mm × 108mm × 17mm)
- Powered by USB bus when using in connection with PC

Features

- One common hardware unit supports other CPU series by purchasing software license additionally
- Download capability to flash memory
- Writes to on-board and CPU internal flash memory
- Useable as a stand-alone writer. (operate by AC adaptor)
- One-touch automatic script execution via the PLAY button on the unit
- The external terminal setup for executing a script by signal input and detecting the end state of a script externally
- Perfect for use in auto-verification of the target on mass production or for updating new versions
- Supports ARM7TDMI®, ARM9TDMI®, ARM11, Cortex core (A15, A9MPCore, A8, R4, M0/M3/M4)
 - Detailed setup for individual CPU
 - CPU automatic detection
- Supports half pitch connector of Cortex-M
- Docking of windows
 - Helpful for expansion and arrangement of work space
- Supports C/C++ (OS: Windows2000/XP/Vista/7 *1)
- Works on various PC*2, note PC and other host computers. (by connecting USB)
- Supports over 300 types of flash memory devices*4
- Possible to write to not-supported flash memory when users make a custom program

Specifications

| | |
|---|---|
| Target CPU | ARM7 core series (ARM7TDMI, ARM7TDMI-S, ARM710T, ARM720T, ARM740T, etc.) ARM9 core series (ARM9TDMI, ARM9TDMI-S, ARM910T, ARM920T, ARM940T ARM9E, ARM946E, ARM966E, ARM922, ARM925, ARM926, etc.) ARM11 core series (ARM1136, ARM1176, etc.) Cortex core series (A9 MPCore, A15, A8, R4, M0/M3/M4) |
| Target Vcc | VCC 0.8~5.0V |
| Flash memory Writer capability*3 | <ul style="list-style-type: none"> • Memory DUMP capability • Data download from files • Writes via PLAY button on the unit or Write button on the writer software by recording batch file for writing • Writes by inputting signal to external input terminal • Block erase capability • Stand-alone writer capability Without a command from the computer, users can download to flash memory by recording flash memory writing script into the attached MicroSD. (Two different operation scripts can be recorded) |
| Flash memory makers*4 | Renesas Technology, Numonyx (Intel, ST Micro.), MACRONIX, Sharp, Toshiba, NEC, Sanyo, ATMEL, SST, OKI, Spansion (Fujitsu, AMD), EON |

*1 Supports Windows XP Professional x64Edition (64 bit) and Windows Vista/7 (32 bit, 64 bit)

*2 Please confirm in advance because some machines need an operation check.

*3 This WATCHPOINT writer supports capability only for download to flash memory. Debugger capability such as breakpoints, registers and step execution are not included. Please purchase WATCHPOINT Debugger license when the EJSCT unit is used as a JTAG debugger.

*4 Please refer to our website for more details.

Configuration



■ CD-ROM

* The above cables support Cortex core, ARM7 core, ARM9 core and ARM11 core CPUs.
Other CPUs are NOT supported.

Object Data for Flash memory writing:

Supports the below compilers output

| | |
|------------|-------------------------|
| ARM | MDK-ARM, DS-5 |
| IAR | EWARM |
| GreenHills | GHS |
| GAIO | XCC-V |
| GNU | GCC |
| Metaware | High C/C++/EC++ for ARM |



■ JTAG Cable

SCP7500 : SCP 20to20
SCP7200 : SCP CortexMx-PB-HF10-JCB
SCP7300 : SCP CortexMx-PB-HF20-JCB
VK0019 : TI-ARM exclusive JTAG cable

Target Connections

JTAG Header Connector pin Assignment (Top View)

0.1 inch 2 × 10 Connector

| | | | |
|-------------|----|----|---------|
| VTRef | 1 | 2 | VSupply |
| NC (nTRST) | 3 | 4 | GND |
| NC (TDI) | 5 | 6 | GND |
| SWDIO (TMS) | 7 | 8 | GND |
| SWCLK (TCK) | 9 | 10 | GND |
| NC (RTCK) | 11 | 12 | GND |
| SWO (TDO) | 13 | 14 | GND |
| nSRST | 15 | 16 | GND |
| DBGREQ | 17 | 18 | GND |
| DBGACK | 19 | 20 | GND |

Recommended connector: 7620-6002 (3M)
VTRef Vsupply Connect to Target power supply
SCP7500: SCP 20 to 20

0.05 inch 2 × 5 Connector

| | | | |
|----------|---|----|---------------|
| VTRef | 1 | 2 | SWDIO / TMS |
| GND | 3 | 4 | SWCLK / TCK |
| GND | 5 | 6 | SWO / TDO |
| KEY | 7 | 8 | NC/EXTb / TDI |
| GNDetect | 9 | 10 | nRESET |

Recommended Connector:
SHF-105-01-L-D-** (SAMTEC)

VTRef Connect to Target power supply

Option cable: SCP7200
* SCP7200 is required when half pitch 10 pin connector is mounted on the target board.

0.05 inch 2 × 10 Connector

| | | | |
|----------|----|----|-------------------------|
| VTRef | 1 | 2 | SWDIO / TMS |
| GND | 3 | 4 | SWCLK / TCK |
| GND | 5 | 6 | SWO/EXTa/TRACECTL / TDO |
| KEY | 7 | 8 | NC/EXTb / TDI |
| GNDetect | 9 | 10 | nRESET |
| GND | 11 | 12 | TRACECLK |
| GND | 13 | 14 | TRACEDATA[0] |
| GND | 15 | 16 | TRACEDATA[1] |
| GND | 17 | 18 | TRACEDATA[2] |
| GND | 19 | 20 | TRACEDATA[3] |

Recommended connector:
SHF-110-01-L-D-** (SAMTEC)

VTRef Connect to Target power supply

Option cable: SCP7300
* SCP7300 is required when half pitch 20 pin connector is mounted on the target board.

WATCHPOINT Software License

The WATCHPOINT Writer for EJSCT is a licensed software product. One common hardware unit supports other CPU series by acquiring and registering additional software licenses.

* The WATCHPOINT license operates with the registered EJSCT hardware unit only. Once the license is registered with one EJSCT unit, users need to purchase a new WATCHPOINT license in order to use with another EJSCT unit.

Ordering Information

| System requirements | | Items necessary for standard Writer System | | | |
|---------------------|-----------------------|--|-------------------------------|---------------------------------|--|
| Host PC *1 | Connect with PC | JTAG emulator | Writer Software (WATCHPOINT) | Support Service | JTAG cable (Must select at least 1 cable) |
| Windows PC | USB2.0/1.1 Connection | SCD001 : EJSCT | SCS0790E : WP WRT for EJS ARM | SSS010 : Sophia Support Service | SCP7500 : SCP 20to20 SCP7200 : SCP CortexMx-PB-HF10-JCB SCP7300 : SCP CortexMx-PB-HF20-JCB VK0019 : TI-ARM exclusive JTAG cable*2 |

Items in the box surrounded by bold lines are necessary for Writer Systems. The EJSCT JTAG emulator serves as the hardware key when using software writer license

*1 Host PC
OS: Windows 2000/XP Professional x64Edition (64 bit) or Windows Vista/7 (32 bit, 64 bit)
Memory: Minimum 32MB, 64MB+ recommended
Hard Disk: 100MB for installation

*2 VK0019 is required to connect with TI 14pin JTAG header.

* Product and company names are trademarks or registered trademarks of their respective owners.
* Product specifications are subject to change without notice.

(Ver.140408)



Sohwa & Sophia Technologies Inc.

URL : <http://www.ss-technologies.co.jp/en/index.html>
E-mail: market@ss-technologies.co.jp

Please contact us about the prices