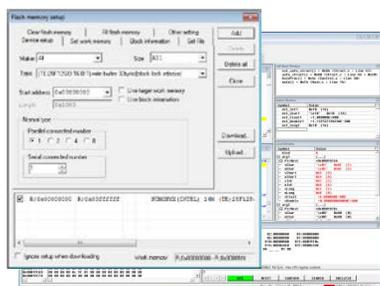


WATCHPOINT Writer for EJSCT Cortex-M Series



Flash Memory Writer having excellent cost performance dedicated to ARM Cortex-M series core support.


Features

- Supports Cortex-M series of ARM licensees (STMicroelectronics, NXP, Actel, TI, Freescale, Toshiba, Spansion, etc.)
- 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 half pitch connector of SWD
- Small size (70mm × 108mm × 17mm)
- Supports over 300 types of flash memory devices*4
- Possible to write to not-supported flash memory when users make a custom program
- Works on various PC*2, note PC and other host computers. (by connecting USB)

Specifications

Target CPU	ARM Cortex-M0, Cortex-M3, Cortex-M4 Supports Cortex-M series of ARM licensees (STMicroelectronics, NXP, Actel, TI, Freescale, Toshiba, Spansion, etc.)
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 Debugger for Cortex-M series when you need debugger capability.

*4 Please refer to our website for more details.

Configuration



■ CD-ROM

* This product supports ARM Cortex-M series only, and cannot be used for other CPUs.

■ JTAG Cable

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

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

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
DBGRRQ	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
GNDDetect	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/EXTb/TRACECTL / TDO
KEY	7	8	NC/EXTb / TDI
GNDDetect	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
 * ETM is not supported.

Ordering Information

System requirements		Items necessary for standard Writer System		
Host PC *1	Connect with PC	JTAG emulator (WATCHPOINT)	Support Service	JTAG cable (Must select at least 1 cable)
Windows PC	USB2.0/1.1 Connection	SCD002W : WRT for EJ-SCT Cortex-M Series	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

*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)



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Please contact us about the prices