



WriteNow! Series
In-System Programmers

Supported Silicon Families

(Updated October 2013)

Legend

Supported	
Under development	
Included free of charge	✓

ALTERA EPCS Memories ✓	ESMT F25 Memories ✓	ISSI IS24 Memories ✓ IS25 Memories ✓ IS93 Memories ✓	NXP LPC11 MCUs (Cortex M0) ✓ LPC13 MCUs (Cortex M3) ✓ LPC17 MCUs (Cortex M3) ✓ LPC18 MCUs (Cortex M3) ✓ LPC2000 MCUs (ARM7) ✓ PCF8563 RTC ✓	ROHM BR24 Memories ✓ BR25 Memories ✓ BR93 Memories ✓	ST M24 Memories ✓ M25 Memories ✓ M45 Memories ✓ M93 Memories ✓ M95 Memories ✓ S17 MCUs ✓ S130 MCUs (ARM7) ✓ S1A MCUs (ARM7) ✓ S1M8 MCUs ✓ S1M32 MCUs (Cortex M0) ✓
ATMEL AT24 Memories ✓ AT25 Memories ✓ AT45 Memories ✓ AT90 MCUs ✓ AT91SAM7 MCUs (ARM7) ✓ AT91SAM9 MCUs (ARM9) ✓ AT93 Memories ✓ AVR XMEGA MCUs ✓ megaAVR MCUs ✓ tinyAVR MCUs ✓	freescale HC08 MCUs ✓ MCF51 (Coldfire V1) ✓ MPC55 MCUs (PowerPC) ✓ MPC56 MCUs (PowerPC) ✓ S08 MCUs ✓ S12 MCUs ✓ S12X MCUs ✓	MICROCHIP 24 Memories ✓ 93 Memories ✓ dsPIC33 MCUs ✓ PIC10 MCUs ✓ PIC12 MCUs ✓ PIC16 MCUs ✓ PIC18 MCUs ✓ PIC24 MCUs ✓ PIC32 MCUs ✓ SST25 Memories ✓	ON Semiconductor CAT24 Memories ✓	SAMSUNG eMMC Memories ✓	SANYO LE24 Memories ✓ LE25 Memories ✓
CYPRESS PSoC 1 MCUs (M8C) ✓	FUJITSU MB95 MCUs ✓ MB96 MCUs ✓	RENESAS 78K0 MCUs ✓ 78K0R MCUs ✓ 78K0S MCUs ✓ H8 MCUs ✓ H8S MCUs ✓ H8SX MCUs ✓ M16C MCUs ✓ M32C MCUs ✓ R32C MCUs ✓ R8C MCUs ✓ RX MCUs ✓ SH MCUs ✓ V850 MCUs ✓	RAMTRON FM24 Memories ✓ FM25 Memories ✓	SII S-24 Memories ✓ S-25 Memories ✓ S-93 Memories ✓	TEXAS INSTRUMENTS CC25 MCUs ✓ MSP430 MCUs ✓ Stellaris MCUs (Cortex M3) ✓ TMS320F MCUs ✓ TMS570LS MCUs ✓
ENERGY EFM32 MCUs (Cortex M3) ✓	HOLTEK HT24 Memories ✓ HT93 Memories ✓	MICRON M25 Memories ✓ M29 Memories ✓ M45 Memories ✓ N25Q Memories ✓	RENESAS	SILICON LABS EFM32 MCUs (Cortex M3) ✓ EM35X MCUs (Cortex M3) ✓	TOSHIBA eMMC Memories ✓
ember EM35X MCUs (Cortex M3) ✓	Infineon XC166 MCUs ✓ XE16X MCUs ✓ XC2000 MCUs ✓	MXIC MX25 Memories ✓		SK hynix eMMC Memories ✓	winbond W25 Memories ✓
eon EN25 ✓				SPANSTON S25 Memories ✓ S29 Memories ✓	SECURISYS Z-Wave 300 MCUs ✓
				ST SST25 Memories ✓	



WriteNow! Series
In-System Programmable

Programming Times

The WriteNow! technology is targeted to on-board (in-system) programming and has been designed to achieve high-speed programming.

Here are some examples of WriteNow!'s programming times for a single device or several chips simultaneously.

Manufacturer	Device	Memory Size	Conditions	Operations	Time (s)
Renesas	R5F21218	64KB + 2KB	UART @ 500000bps	Program + Verify	14,9
STMicroelectronics	STM8S208RB	128KB + 2KB	SWIM	Erase + Program + Verify	8,8
Microchip	24AA128	128Kbit	I2C @ 400KHz	Program + Verify	1,8
Texas Instruments	TMS430F28016	16KWord	UART @ 1562500bps	Program + Verify	3,9
Infineon	XC2336B	320KB	JTAG @ 20MHz	Erase + Blank Check + Program + Verify	10
STMicroelectronics	STM32F217IE	512KB	SWD	Erase + Program + Verify	15
Atmel	ATMEGA168P	16KB + 512B	SPI @ 2MHz	Erase + Blank Check + Program + Verify	3
NXP	LPC2368	512KB	JTAG	Erase + Blank Check + Program + Verify	5,1
Freescale	MC9S12XEQ512	512KB	BDM	Erase + Blank Check + Program + Verify	17
Texas Instruments	CC2530F128	128KB	SDI @ 12MHz	Erase + Program + Verify	3,5
Renesas/NEC	UPD78F9222	4KB	UART DGCLK=8MHz	Erase + Blank Check + Program + Verify	1,7
Cypress	CY8C21534	8KB	ISSP @ 8MHz	Erase + Blank Check + Program + Verify	6
Spansion	S25FL064P	8MB	SPI @ 5MHz	Program + Verify	34
Microchip	PIC16F677	2KB	ICSP	Erase + Program + Verify	5,1
Microchip	PIC32MX460F512L	512KB + 12KB	JTAG @ 8MHz	Erase + Blank Check + Program + Verify CRC	9
Freescale	MC9S08AW16	16KB	BDM @ PLL 40MHz	Erase + Blank Check + Program + Verify	1,9
Renesas/NEC	UPD70F3618	196KB	CSI @ 5Mbps	Erase + Blank Check + Program + Verify	12
Freescale	MPC5604B	512KB	JTAG @ 15MHz	Erase + Blank Check + Program + Verify	5,3

* These programming times are calculated for the whole memory size. Many factors can affect actual throughput. These parameters can vary in different applications and actual performance may vary over time.



SOLUTIONS FOR THE PROGRAMMING INDUSTRY

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