

AVR[®] ISP

IN-SYSTEM PROGRAMMER



The Atmel AVR ISP is an In-System Programmer for Atmel's AVR Flash Microcontrollers. The AVR ISP gives the designer a compact and reliable programming tool to program all In-System Programmable AVR microcontrollers through a 6- or 10-pin ISP connector. The AVR ISP uses AVR Studio[®], Atmel's Integrated Development Environment (IDE) for code writing and debugging. The programming software can be controlled from both a Windows[®] environment and a DOS command-line interface. The AVR ISP kit includes the following features:

- AVR Studio Interface
- ISP Programming of all In-System Programmable AVR Devices
- Programs both Flash and EEPROM
- Supports Fuse and Lock Bit Programming
- Supports RC Oscillator Calibration
- Upgradeable to Support Future Devices
- Operates at Voltages from 2.7V to 5.5V
- Adjustable Speed. Supports all Target Boards Running at a Speed Higher than 8 kHz
- RS-232 Interface
- Powered from Target. No need for Additional Power Supply



Corporate Headquarters

2325 Orchard Parkway
San Jose, CA 95131
Tel: (408) 441-0311
Fax: (408) 487-2600

Europe

Atmel SarL
Route des Arsenaux 41
Casa Postale 80
CH-1705 Fribourg
Switzerland
Tel: (41) 26-426-5555
Fax: (41) 26-426-5500

Asia

Atmel Asia, Ltd
Room 1219
Chinachem Golden Plaza
77 Mody Road
Tsimshatsui East, Kowloon
Hong Kong
Tel: (852) 2721-9778
Fax: (852) 2722-1369

Japan

Atmel Japan K.K.
9F, Tonetsu Shinkawa Bldg.
1-24-8 Shinkawa
Chuo-ku, Tokyo 104-0033
Japan
Tel: (81) 3-3523-3551
Fax: (81) 3-3523-7581

e-mail

literature@atmel.com

Web Site

<http://www.atmel.com>

©Atmel Corporation 2001

Atmel Corporation makes no warranty for the use of its products, other than those expressly contained in the Company's standard warranty which is detailed in Atmel's Terms and Conditions located on the Company's web site. The Company assumes no responsibility for any errors which may appear in this document, reserves the right to change devices or specifications detailed herein at any time without notice, and does not make any commitment to update the information contained herein. No licenses to patents or other intellectual property of Atmel are granted by the Company in connection with the sale of Atmel products, expressly or by implication. Atmel's products are not authorized for use as critical components in life support devices or systems.

Atmel®, AVR®, and AVR Studio® are registered trademarks of Atmel.

Windows® is a registered trademark of Microsoft Corporation.

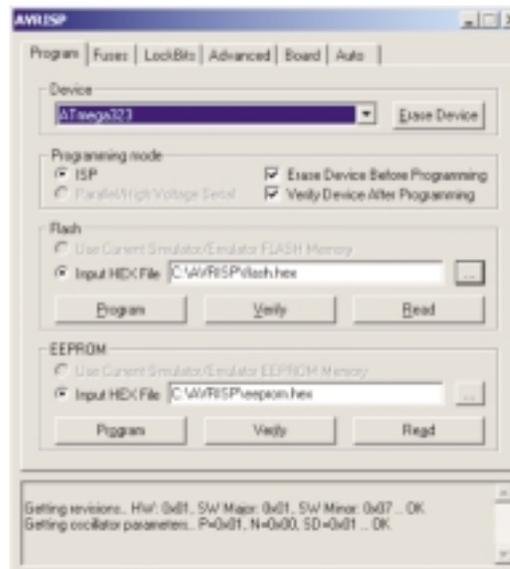
Other terms and product names may be trademarks of others.

2492A-09/01/15M

The AVR ISP is a compact and easy-to-use in-system programming tool for developing applications with Atmel's AVR microcontrollers. Due to the small size, it is also an excellent tool for field upgrades of existing applications using AVR microcontrollers. The AVR ISP is powered by the target application and an additional power supply is thus not required for AVR ISP Programmer. The AVR ISP supports the following Atmel AVR microcontrollers:

- ATtiny12
- ATtiny15
- AT90S1200
- AT90S2313
- AT90S/LS2323
- AT90S/LS2343
- AT90S/LS4433
- AT90S/LS4434
- AT90S8515
- AT90S/LS8535
- ATmega8(L)
- ATmega161(L)
- ATmega16(L)
- ATmega163(L)
- ATmega32(L)
- ATmega323(L)
- ATmega103(L)
- ATmega128(L)

The AVR ISP programming interface is integrated in AVR Studio. The Flash, EEPROM and most fuse options can be programmed individually or with the sequential automatic programming option. The DOS programming software is included for efficient batch programming. The AVR ISP clock frequency is controlled from AVR Studio. The active simulator or emulator code in AVR Studio can easily be programmed into the target AVR microcontroller with a simple click of the mouse.



Ordering Information for the AVR ISP

The AVR ISP is available from Atmel-franchised distributors; the ordering code is ATAVRISP. The latest version of AVR Studio is available from the Atmel web site (<http://www.atmel.com>).