



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# AVR<sup>®</sup> ISP In-System Programmer

## COMPACT AND EASY-TO-USE TOOL FOR AVR IN-SYSTEM PROGRAMMING

The Atmel<sup>®</sup> AVR ISP is an In-System Programmer for Atmel's AVR<sup>®</sup> 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<sup>®</sup>, Atmel's Integrated Development Environment (IDE) for code writing and debugging.

The programming software can be controlled from both a Windows<sup>®</sup> environment and a DOS command-line interface.



- AVR Studio Operated
- Serial In-System Programming
- RS-232 Interface to PC
- Upgrades are done from AVR Studio
- Target Voltage 2.7 – 6.0V
- Powered from Target. No Need for Additional Power Supply

**Corporate Headquarters**

2325 Orchard Parkway  
San Jose, CA 95131  
USA  
TEL: (1)(408) 441-0311  
FAX: (1)(408) 487-2600

**Europe**

Atmel Sarl  
Route des Arsenaux 41  
Case Postale 80  
CH-1705 Fribourg  
Switzerland  
TEL: (41) 26-426-5555  
FAX: (41) 26-426-5500

**Asia**

Room 1219  
Chinachem Golden Plaza  
77 Mody Road Tsimshatsui  
East Kowloon  
Hong Kong  
TEL: (852) 2721-9778  
FAX: (852) 2722-1369

**Japan**

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



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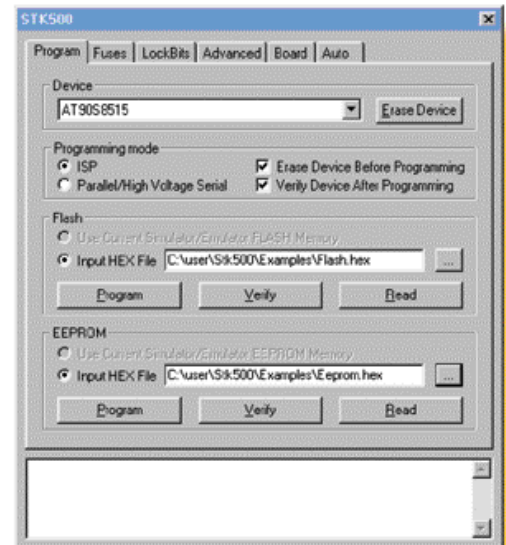
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2492C-AVR-09/02/15M

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 Programming interface is integrated in AVR Studio. The Flash, EEPROM and all Fuse and Lock Bit options ISP-programmable can be programmed individually or with the sequential automatic programming option. The AVR clock frequency and supply voltage can also be controlled from AVR Studio.

A DOS Programming software is included for efficient batch programming in a production environment.

**Supported Devices**

ATtiny12	AT90S4414	ATmega8535	ATmega64
ATtiny15	AT90S2343	ATmega161	ATmega103
ATtiny22	AT90S4433	ATmega162	ATmega128
ATtiny26	AT90S4434	ATmega163	AT89551
AT90S1200	AT90S8515	ATmega16	AT89552
AT90S2313	AT90S8535	ATmega169	AT86RF401
AT90S2323	ATmega8	ATmega323	
AT90S2333	ATmega8815	ATmega32	

*Note: Low power versions are also supported.*

**Ordering Information**

The AVR ISP is available from Atmel franchised distributors.

The ordering code is **ATAVRISP**

The latest version of AVR Studio is available free of charge from Atmel web site: [www.atmel.com](http://www.atmel.com)