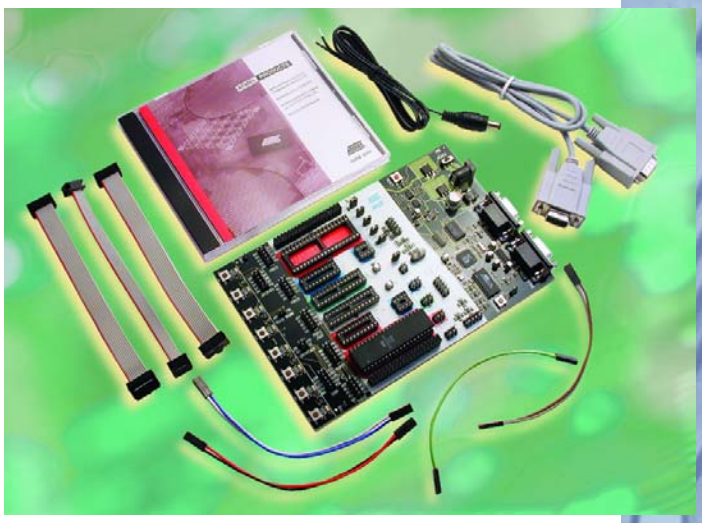
AVR MICROCONTROLLERS

AVR® STK500 Starter Kit and Development System

THE EASIEST WAY TO GET STARTED WITH AVR

The Atmel® AVR STK500 is a starter kit and development system for Atmel's AVR® Flash microcontrollers. The STK500 gives designers a quick start to develop code on the AVR, combined with features for developing prototypes and testing new designs. The STK500 interfaces AVR Studio®, Atmel's Integrated Development Environment (IDE) for code writing and debugging.



- AVR Studio Operated
- Serial In-System Programming
- In-System Programming in External Target Systems
- Parallel and Serial High-voltage Programming
- RS-232 Interface to PC
- Sockets for 8-, 20-, 28-, and 40-pin AVR Devices
- Flexible Clocking, Voltage and Reset System
- LEDs and Push Buttons for Experimentation
- All AVR I/O Ports Easily Accessible through Pin Header Connectors
- Spare RS-232 Driver and Connector
- Upgrades are done from AVR Studio
- Expansion Connectors for Plug-in Modules and Prototype Areas
- Target Voltage 1.8 – 6.0V
- Supply Voltage 9 – 12V

ATMEL®

STK500 Starter Kit and Development System

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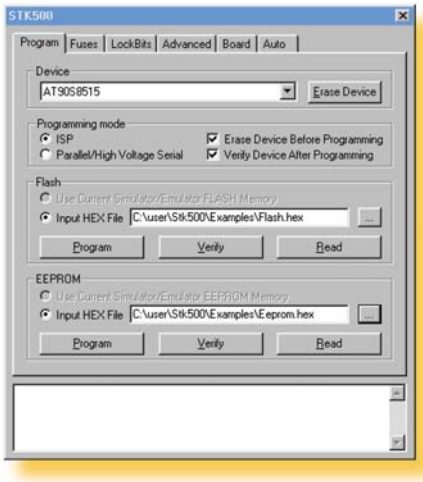
The STK500 is a complete starter kit, programming tool and development system for Atmel's AVR microcontrollers. The STK500 gives AVR users the freedom to develop and test complete AVR designs and prototypes.

The STK500 supports all Programming modes of all AVR microcontrollers in the sockets as well as ISP Programming of external target systems. The AVR I/O ports are accessible on pin headers that can be used for connecting the on-board LEDs and push buttons, or external signals. The extra RS-232 port can be connected to any of the I/O pins.

The STK500 Programming interface is integrated in AVR Studio. The Flash, EEPROM, and all Fuse and Lock Bit options 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.

The active simulator or emulator code in AVR Studio can easily be programmed into the STK500 with one click of the mouse.



Supported Devices[4]

ATtiny11	AT90S2323	ATmega8	ATmega323
ATtiny12	AT90S2333	ATmega8515	ATmega32
ATtiny15	AT90S2343	ATmega8535	ATmega64[1]
ATtiny22	AT90S4414	ATmega161	ATmega103[1]
ATtiny26	AT90S4433	ATmega162	ATmega128[1]
ATtiny28	AT90S4434	ATmega163	AT89951[3]
AT90S1200	AT90S8515	ATmega16	AT89952[3]
AT90S2313	AT90S8535	ATmega169[2]	AT86RF401[3]

Notes *1: The device is supported through ISP Programming of external target or through the STK501 expansion module.*
2: The device is supported through ISP Programming of external target or through the STK502 expansion module.
3: The device is supported through ISP Programming of external target.
4: Low power versions are also supported.

Ordering Information

The STK500 is available from Atmel franchised distributors.

The ordering code is **ATSTK500**

The latest version of AVR Studio is available free of charge from the Atmel web site: www.atmel.com