AVR STK502 Expansion

Expansion Board

SUPPORT FOR MEGA169 WITH ON-CHIP LCD CONTROLLER TO STK500

The STK502 board is a hardware expansion module for the STK500 Starter Kit adding support for the ATmega169 device featuring an on-chip LCD controller.

The STK502 includes connectors, jumpers and hardware allowing full support for all features on the mega169, including a LCD-display. The Zero Insertion Force socket allows easy use of TQFP packages. STK502 includes a demonstration application for temperature monitoring, using an on-board temperature sensor.



The STK502 demonstrates all the capabilitie of the Low Power ATmega169 AVR® Flash microcontroller. Two applications notes designed to run on the STK502 hardware help reduce time-to-market for designers using the ATmega169.

- AVR Studio® Operated
- Plug-in Module for STK500
- Serial In-System Programming
- Parallel High-voltage Programming
- LCD Display for Demonstrating ATmega169 LCD-driver
- LCD Display Header for Using an External LCD Display
- Temperature Sensor for Temperature Monitoring Demonstration

- All I/O Ports Easily Acessible through Pin Header Connectors
- Expansion Connectors for Plug-in Modules and Prototype Areas
- TQFP Footprint for Emulator Adapters
- JTAG Connector for On-chip Debugging using the JTAG ICE
- On-board 32 kHz Clock Crystal for Easy Real Time Clock Implementation
- Target Voltage 1.8 5.5V
- Powered by STK500



STK502 ATMEGA169 AVR EXPANSION BOARD

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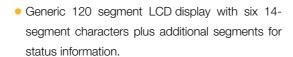
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4032A-AVR-11/02/15M

Together with the STK500 starter kit, the STK502 provides programming and development support for the ATmega169.

 The STK502 has a header for direct connection of the JTAG In-Circuit Emulator.

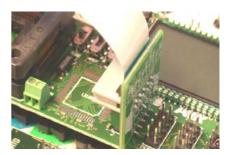
JTAG ICE offers a complete Background Debug Monitor solution with visibility of all ATmega169 internal resources, including full LCD emulation. STK502 and JTAG ICE makes a perfect pair for ATmega169 firmware development and debug.

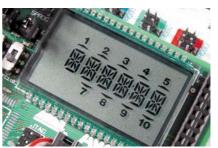






- Application note "AVR064: STK502 A Temperature Monitoring System with LCD Output" describes the demonstration application pre-programmed in the kit.
- Application note "AVR065: LCD Driver for STK502" describes how to write an ATmega169 LCD driver for alphanumeric characters.







STK502 supports both the In-System Programming mode and the High-voltage Programming mode. AVR Studio, Atmel's front-end tool for the STK500 Development Board, provides support for STK502.

Supported Device

ATmega169V, ATmega169L

Ordering Information

The STK502 is available from Atmel's franchised distributors.

The ordering code is ATSTK502.

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

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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