AVRFreaks

DESIGN NOTE #001

KEYWORDS:

STK500, STK300, ISP, ATMEGA103

Using STK500 to Program External Target STK300

Issue

The built-in programmer of the STK500 development board can be used to program external targets, such as an Atmega103 in an STK300 development board. This design notes provides the necessary modifications on the STK300 in order to achieve this.

Solution

Pins 3 and 4 of the ISP10PIN (J905) header must be connected. Soldering the pins together is the easiest way to do this.

The Pull-up resistor of the STK300 must be changed since the default pull-up is too strong for the STK500 programmer. Replace the resistor R2, which is 1kΩ, with a 4.7kΩ resistor. Resistor R2 is the second one counting from the diodes by the STK300's serial port. Please see Figure 1.

Figure 1. STK300