

**STK600**  
for Basics of Microprocessor technology



Alexey Tukalo,  
EFA12SF,  
Information Technology,  
Savonia University of Applied Sciences

October 26, 2014

## Contents

<b>1</b>	<b>The purpose of the STK600 card.</b>	<b>2</b>
<b>2</b>	<b>The main features</b>	<b>2</b>
<b>3</b>	<b>Connecting a processor to STK600</b>	<b>2</b>
<b>4</b>	<b>The price of the development kit</b>	<b>2</b>
<b>5</b>	<b>The parts of the card</b>	<b>2</b>
<b>6</b>	<b>The power supply</b>	<b>2</b>
<b>7</b>	<b>Connecting IO devices</b>	<b>3</b>
<b>8</b>	<b>The clock setting of the processor</b>	<b>3</b>
<b>9</b>	<b>Appendix</b>	<b>4</b>

## 1 The purpose of the STK600 card.

## 2 The main features

- AVR Studio 4/AVR32 Studio compatible
- USB Interface to PC for programming and control
- Powered from USB bus or from an external 10-15V DC power supply
- Serial In-System Programming (ISP) of AVR devices
- JTAG programming of AVR and AVR32 devices
- ISP and JTAG programming of AVR devices in external target systems
- Flexible routing and socket card system for easy mounting of all supported devices
- 8 push-buttons for general use
- 8 LEDs for general use
- All AVR I/O ports easily accessible through pin header connectors
- Expansion connectors for plug-in modules and prototyping area
- On-board 2Mbit Dataflash for non-volatile data
- USB mini-AB (On-The-Go) connector for USB devices
- PHY and DSUB-9 connector for RS232 interface
- PHY and DSUB-9 connector for CAN bus
- PHY and header for LIN bus
- Device board with an ATmega2560 AVR microcontroller is included.

## 3 Connecting a processor to STK600

## 4 The price of the development kit

The prices are in the range from €157 to €227 :

- store.atmel.com - \$ 199 or €157 <sup>1</sup>
- equinox-tech.com - £155 or €197
- reichelt.de - €227 + delivering

We also have take in account delivering prices which are dependent from a customer's and store's locations.

## 5 The parts of the card

## 6 The power supply

The USB cable can be used as source of power for STK600, but the USB cable is able to provide only limited amount of power. As result external power source is had to use, if the board is extended by hardware that may need more than 300mA. It needs 10 – 15V DC power supply with DC jack.

---

<sup>1</sup>in according with exchange rates at October 26, 2014

- 7   Cenecting IO devices**
- 8   The clock setting of the processor**
- 9   Programming the card**
- 10  ISP - programming**
- 11  Default settings**

## 12 Appendix