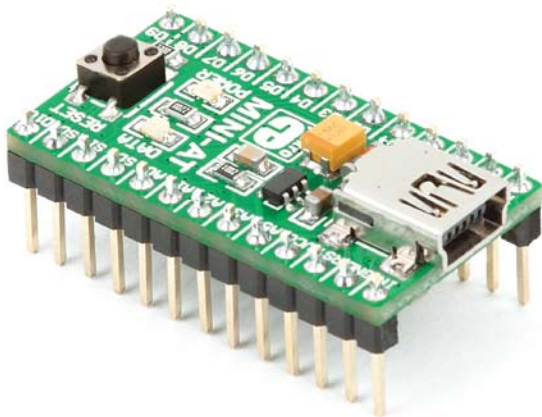




MINI-AT™

Small AVR development board fitted in DIP26 form factor, containing ATmega328 microcontroller.

TO OUR VALUED CUSTOMERS

I want to express my thanks to you for being interested in our products and for having confidence in Mikroelektronika.

The primary aim of our company is to design and produce high quality electronic products and to constantly improve the performance thereof in order to better suit your needs.

A stylized, handwritten signature in white ink, consisting of a large 'C' followed by several loops and a long horizontal stroke.

Nebojsa Matic
General Manager

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1. Programming with Bootloader

When you are ready to start writing your first projects for MINI-AT, you need to download and install the desired AVR compiler. Choose between mikroC, mikroBasic and mikroPascal compilers, which can be found on following address:



<http://www.mikroe.com/eng/categories/view/21/avr-compilers/>

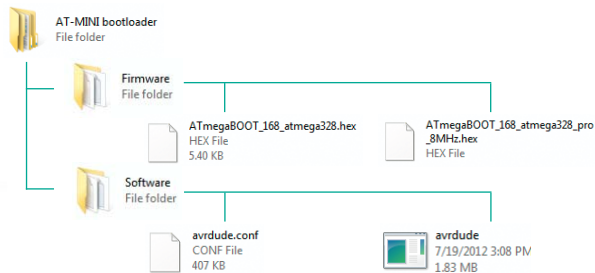


After the installation run the compiler and write the desired code. You can also use provided LedBlinking example as your first project. When you are done writing the code click on **Project->Build (F11)** option to create output .HEX file. Now you need to upload the generated .HEX into the MCU. But before that connect MINI-AT to a PC via MINI-B USB cable (**Figure 1-1**).

Now you will need to download and install the bootloader application and integrate it with your compiler. Download link is available on the MINI-AT webpage. We also provided a nice video tutorial which will guide you through the bootloading process.



<http://www.mikroe.com/eng/products/view/649/mini-at-board/>



NOTE: If you accidentally overwrite the bootloader program it is possible to load it again. In the Firmware folder you can find bootloader .hex files which can be loaded into the microcontroller via the AVR ISP programmer.

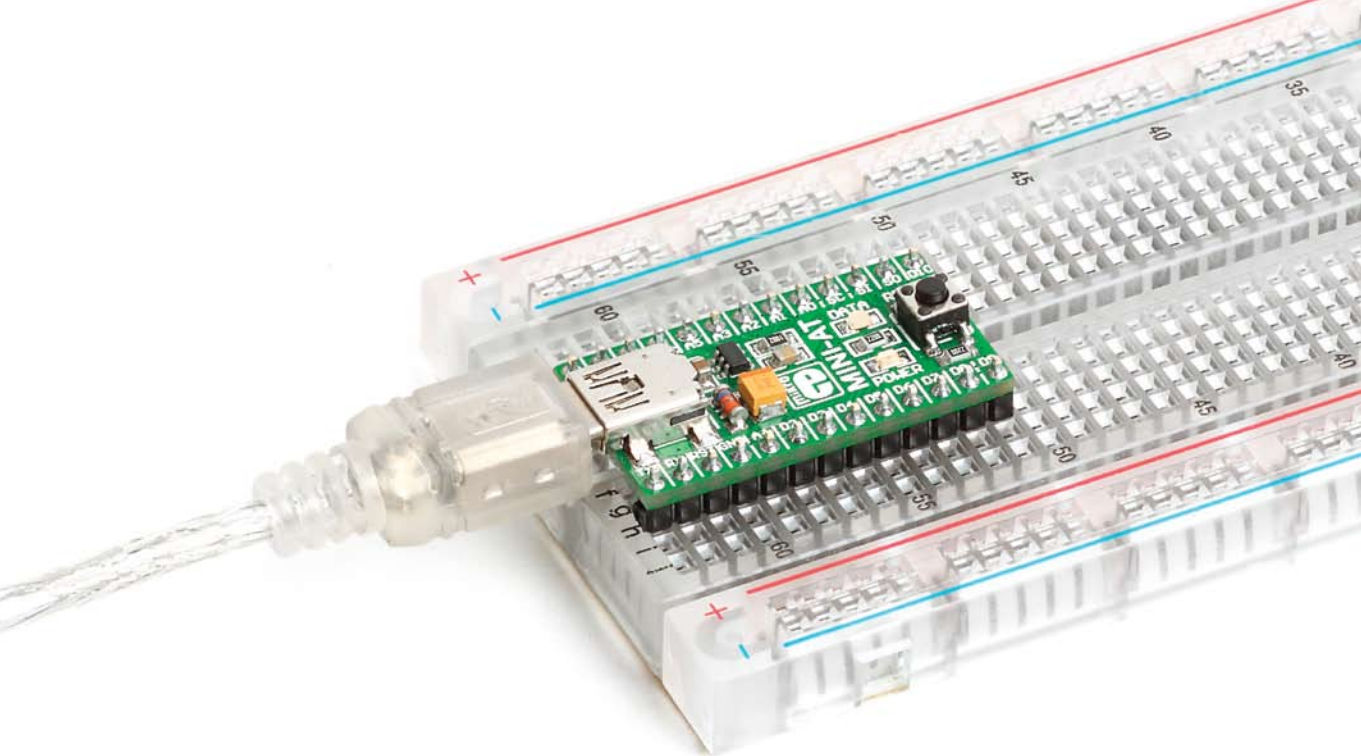


Figure 1-1: Connected MINI-AT via USB cable

2. Schematics

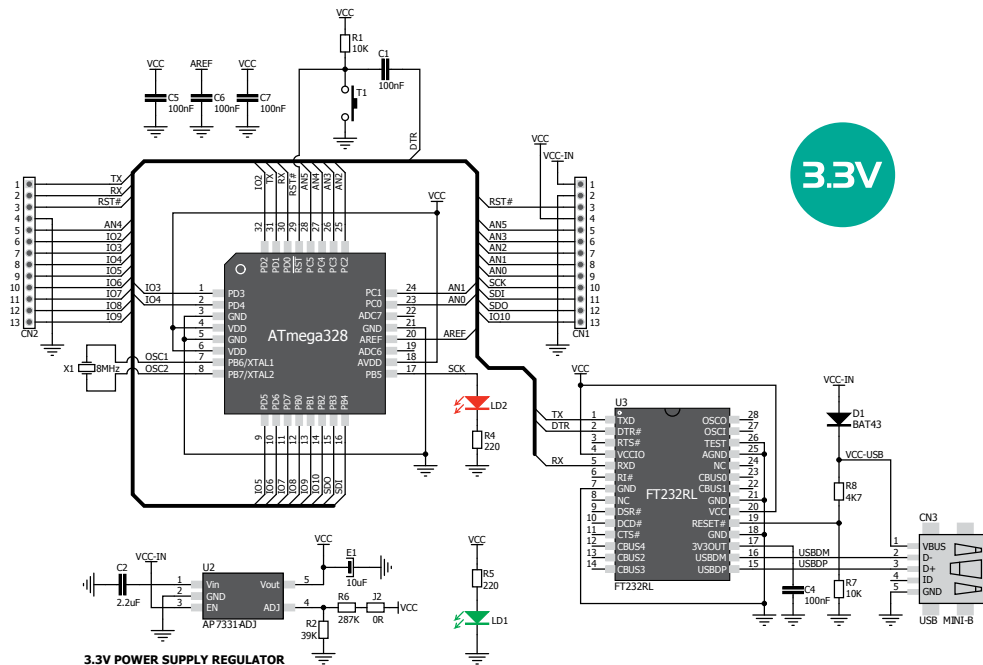


Figure 2-1: MINI-AT schematic with 3.3V power supply

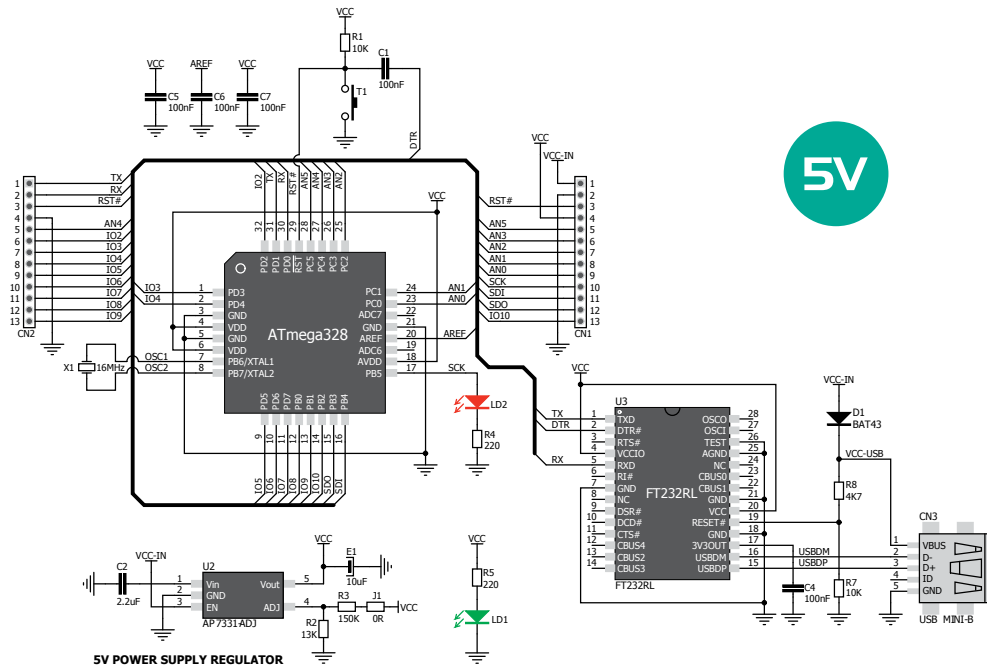
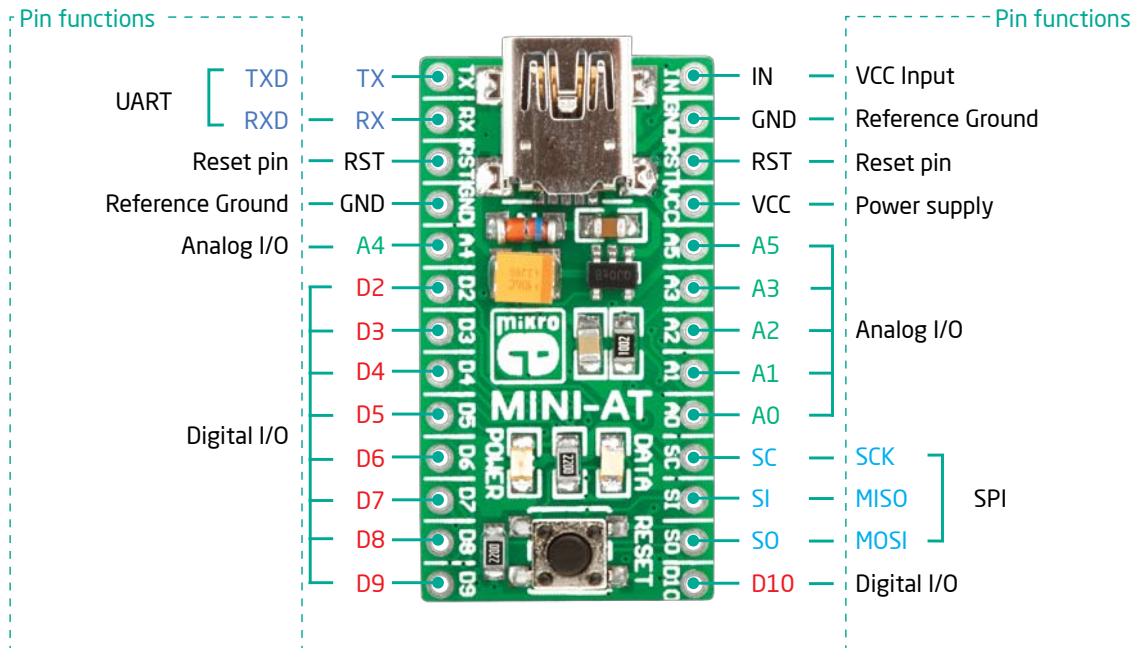


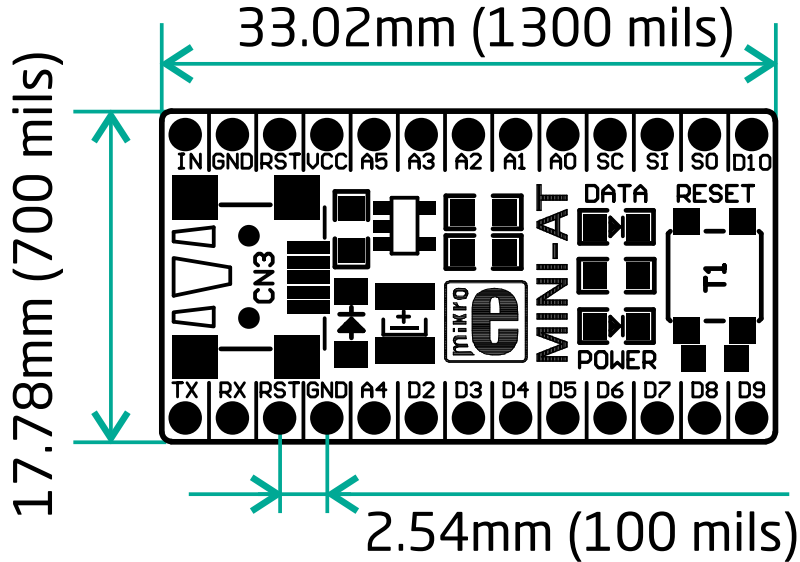
Figure 2-2: MINI-AT schematic with 5V power supply

3. Pinout



■ Digital lines
 ■ Analog Lines
 ■ SPI Lines
 ■ UART lines

4. Dimensions



Notes:

Notes:

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