

# PIC-Ready2™

## Manual

*All Mikroelektronika's development systems feature a large number of peripheral modules expanding microcontroller's range of application and making the process of program testing easier. In addition to these modules, it is also possible to use numerous additional modules linked to the development system through the I/O port connectors. Some of these additional modules can operate as stand-alone devices without being connected to the microcontroller.*

# Additional Board

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In addition to the .hex code loading with the *bootloader* software, the USB connector supplied on the additional board can also be used to enable connection between the microcontroller and other devices that use serial UART communication. When using the USB connector for the UART communication, it is necessary to turn on the appropriate switches on the DIP switch SW1.

2x5 connectors placed on the right side of the additional board enable easy access to the microcontroller pins. Each connector is linked to one microcontroller port (PORTA and PORTB).

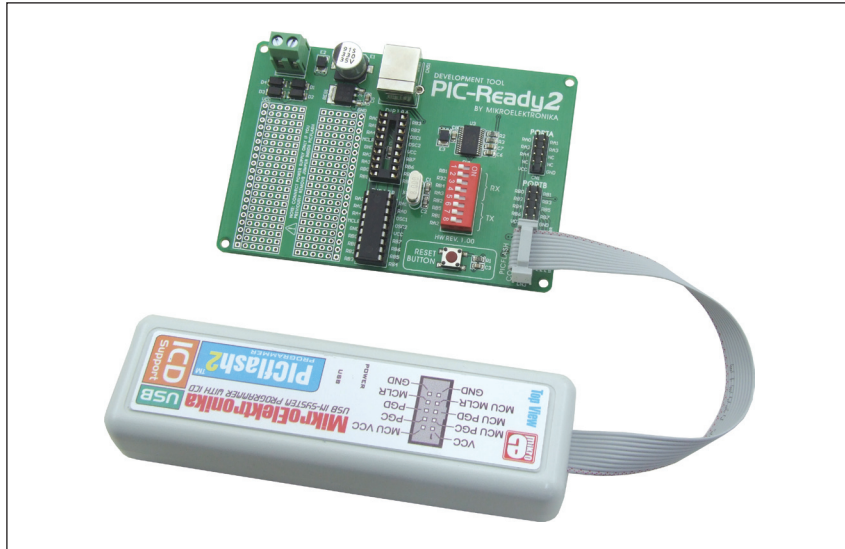


Figure 2: PIC-Ready2 additional board connected to the PICFlash programmer

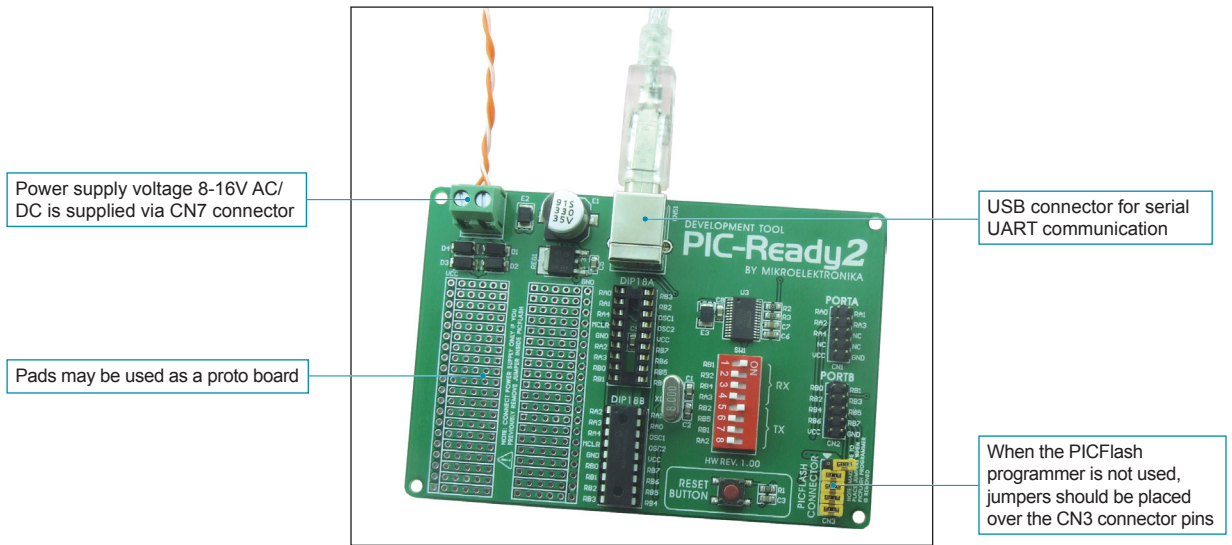


Figure 3: UART communication is enabled

**NOTE:** For more information on the *PICflash* programmer's operation refer to the *PICflash* manual.

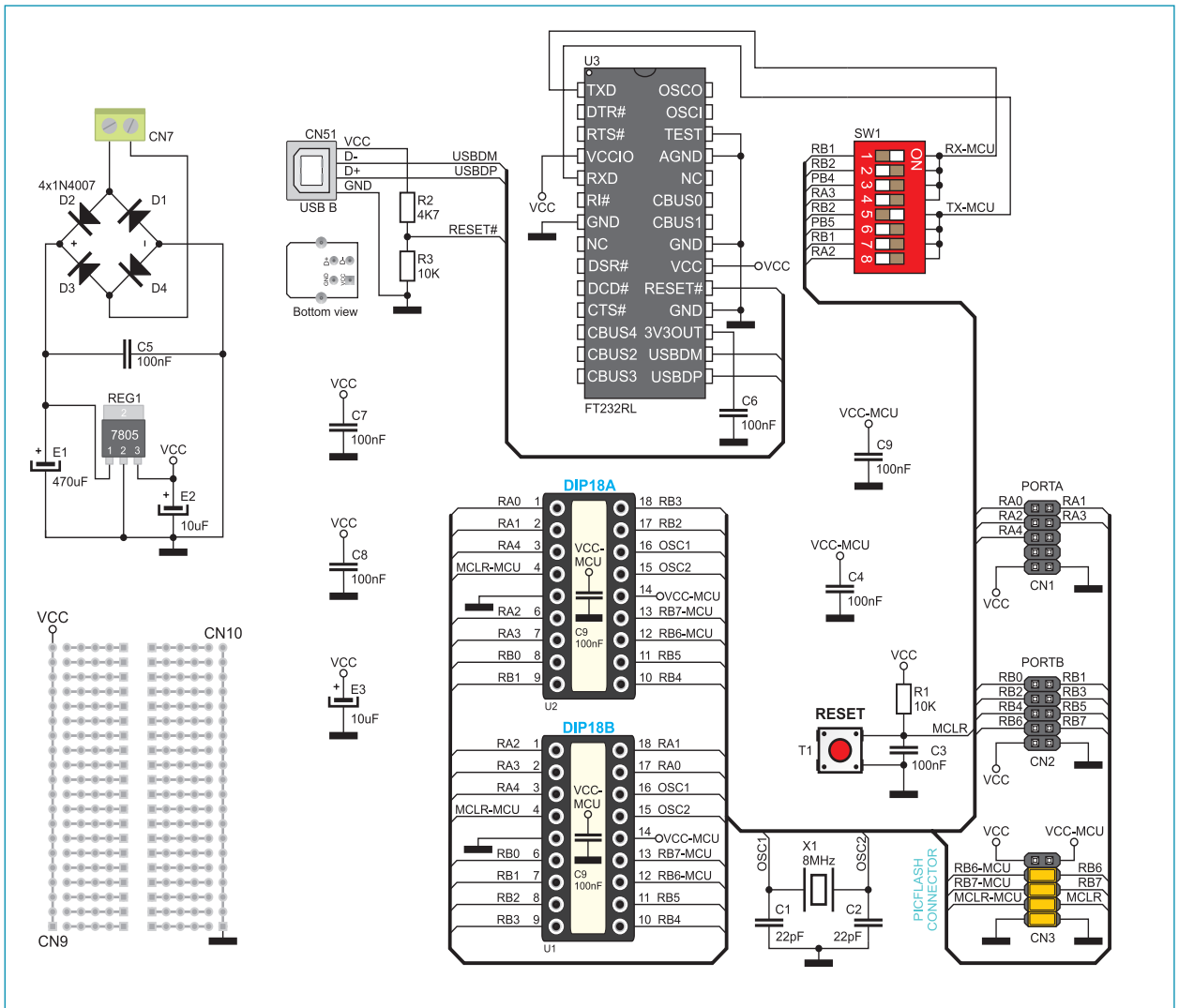
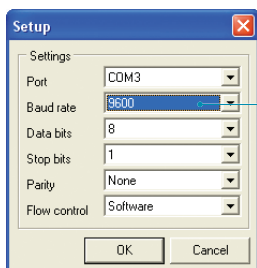
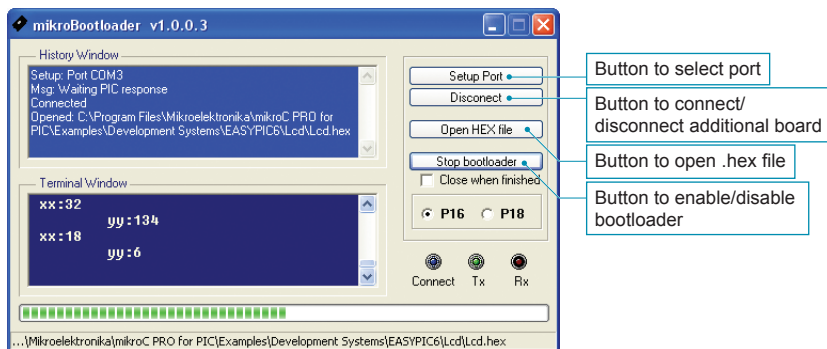


Figure 4: Additional board connection schematic

The *Bootloader* software is integrated in all Mikroelektronika's compilers. It is used to load a .hex code into the microcontroller that already has the Bootloader .hex code loaded. In order to open the *mikroBootloader* window, it is necessary to select the *mikroBootloader* option from the *Tools* menu within the compiler's main window. The first thing you should do after that is to select the port to be used for connecting the additional board to a PC. One click on the *Setup Port* button causes a window with options such as port selection, baud rate selection etc. to be open, Figure 6. Close the *Setup Port* window and click on the *Connect* button within the *mikroBootloader* window in order to establish connection between the Bootloader software and the *PIC-Ready2* additional board. To break this connection, click on the *Disconnect* button. Use the *Open HEX file* button in order to select a .hex file to be loaded into the microcontroller provided on the additional board. One click on the *Start bootloader* button will start up the process of .hex file loading. This process can be ceased at any time by clicking on the *Stop bootloader* button.



Baud rate depends on the rate defined in the *bootloader* .hex code loaded into the microcontroller. For the *bootloaders* provided with Mikroelektronika's compilers, it is set to 9600bps

Figure 6: Port selection



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