

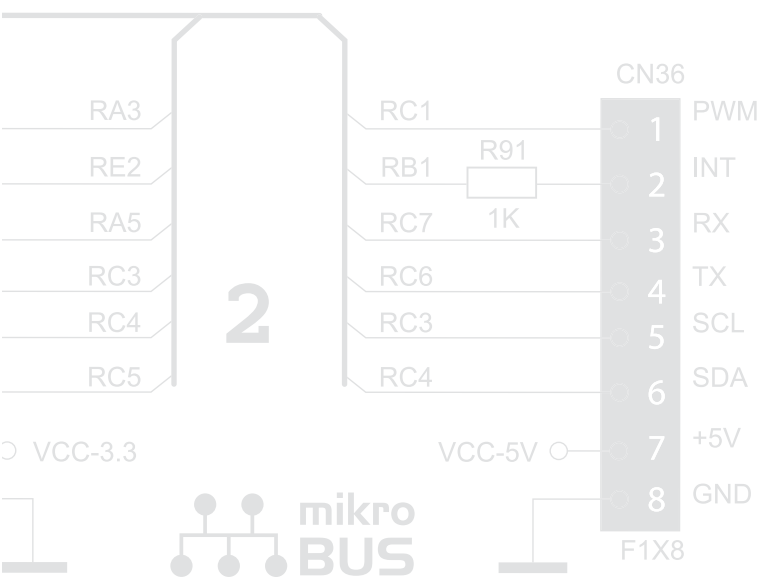
EasyPIC7

The EasyPIC v7 is the seventh generation of mikroElektronika's famous PIC development board. It is the product of accumulated knowledge over the past 10 years, and features state of the art of design, functionality and quality. The board comes with a PIC18F45K22 microcontroller. LCDs purchased separately.



Features:

- On-board **USB programmer** (no need to purchase an external programmer) with mikroICD for in-circuit-debugging from any of MikroElektronika's compilers. Free 2K limited demo compiler included.
- MikroElektronika-standard IDC10 connectors, as well as two "mikroBus" connectors, used to easily add functionality by connecting any of a huge range of **accessory boards** (see "Related Items").
- Example programs.
- USB or external AC/DC power supply option. Supports both 3.3V and 5V microcontrollers.
- LEDs and buttons connected to all available port pins (buttons can apply logic high or low when pressed).
- Pull-up / pull-down option on all port pins.
- Contrast adjustment on LCD and GLCD displays via potentiometers, and backlight brightness controllable via PWM (pulse-width-modulation).
- Replaceable crystal oscillator.
- ICD (in-circuit debugging) connector for use with Microchip ICD products.
- Reset button.
- **Supports** PIC 10, 12, 16 and 18 series microcontrollers in 8-, 14-, 18-, 20-, 28- and 40-pin DIP packages.
- Comes with a **PIC18F45K22** microcontroller.
- Has place for a 2x16 **LCD** display and a 128x64 KS0108-type **GLCD** display with **touch-panel** (sold separately). Comes with 4 x **7-segment** displays.
- **DS1820** and **LM35** temperature-sensor connectors (DS1820/LM35 sold separately).
- Two potentiometers for **ADC** (Analog-to-Digital Converter) inputs.
- **RS232** (with MAX232), **USB** and **USB** with serial UART connectors.
- Serial 24AA01 **EEPROM** with 1kbit of memory and I2C interface.
- Piezo **buzzer**.

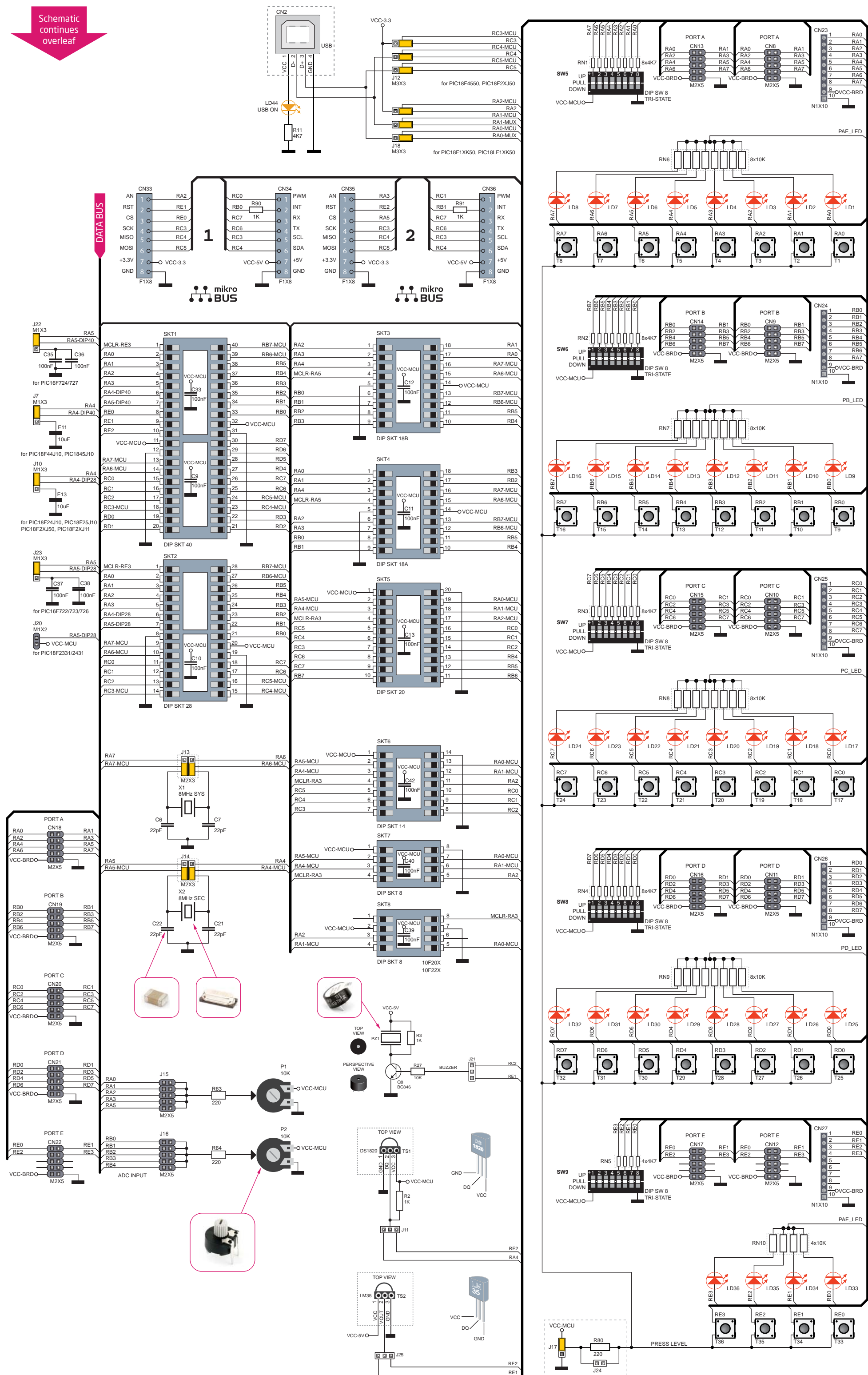


EasyPIC™ v7







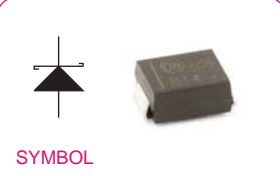


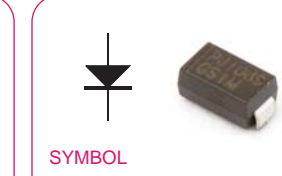

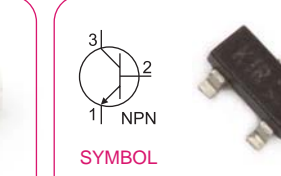
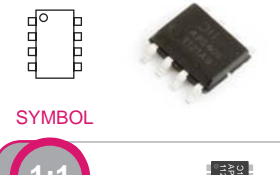
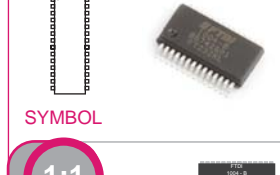


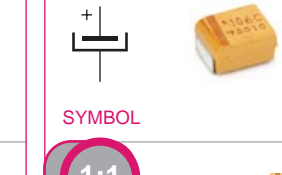



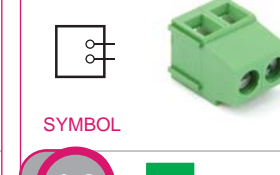
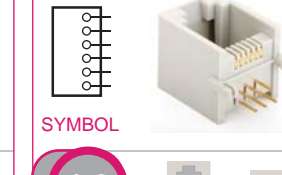
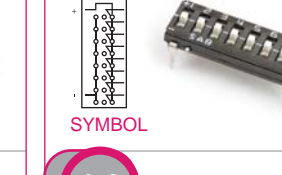
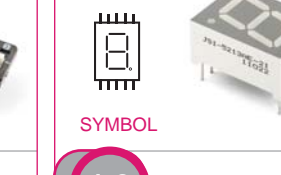
We present you with a complete color schematics for EasyPIC v7 development board. We wanted to make electronics more understandable, even for absolute beginners, so we provided photos of most used SMD components, and made additional comments and drawings so you can get to know what your board is consisted of, and how it actually works.

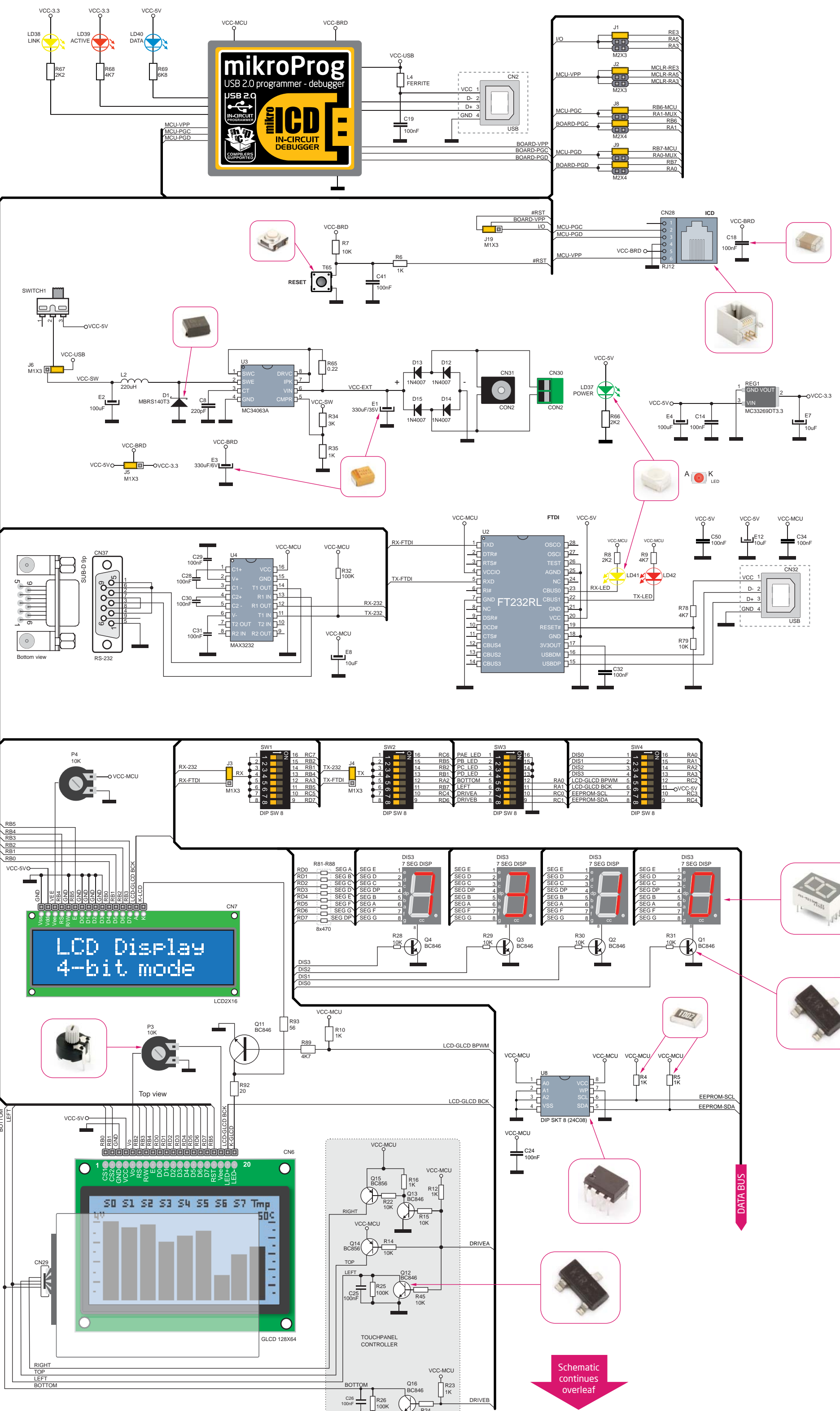


Schematic continues overleaf



BUILT - IN COMPONENT PACKAGE OVERVIEW

 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>RESISTOR 1/8W</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>CAPACITOR</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>ELECTROLYTIC CAPACITOR Dia.10mm</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>ELECTROLYTIC CAPACITOR Dia.8mm</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>FERRITE BEAD</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>INDUCTOR</p>
 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>SCHOTTKY DIODE</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW INSIDE VIEW TOP VIEW</p> <p>PUSH BUTTON</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>CRYSTAL OSCILLATOR</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>RECTIFIER DIODE</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>LED DIODE</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>TRANSISTOR</p>
 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>MC34063A SWITCHING REG.</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>FT232RL USB UART</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>I2C EEPROM</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>RESISTOR 1/2W</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>TANTALUM CAPACITOR</p>	 <p>SYMBOL</p> <p>1:1</p> <p>SIDE VIEW TOP VIEW</p> <p>PCB TEST POINT</p>
 <p>SYMBOL</p> <p>1:2</p> <p>SIDE VIEW TOP VIEW</p> <p>PIEZO BUZZER</p>	 <p>SYMBOL</p> <p>1:2</p> <p>SIDE VIEW TOP VIEW</p> <p>POTENTIOMETER</p>	 <p>SYMBOL</p> <p>1:2</p> <p>SIDE VIEW TOP VIEW</p> <p>SCREW TERMINAL</p>	 <p>SYMBOL</p> <p>1:2</p> <p>SIDE VIEW TOP VIEW</p> <p>RJ-12 CONNECTOR</p>	 <p>SYMBOL</p> <p>1:2</p> <p>SIDE VIEW TOP VIEW</p> <p>TRI-STATE DIP SWITCH</p>	 <p>SYMBOL</p> <p>1:3</p> <p>SIDE VIEW TOP VIEW</p> <p>7-SEGMENT DISPLAY</p>



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