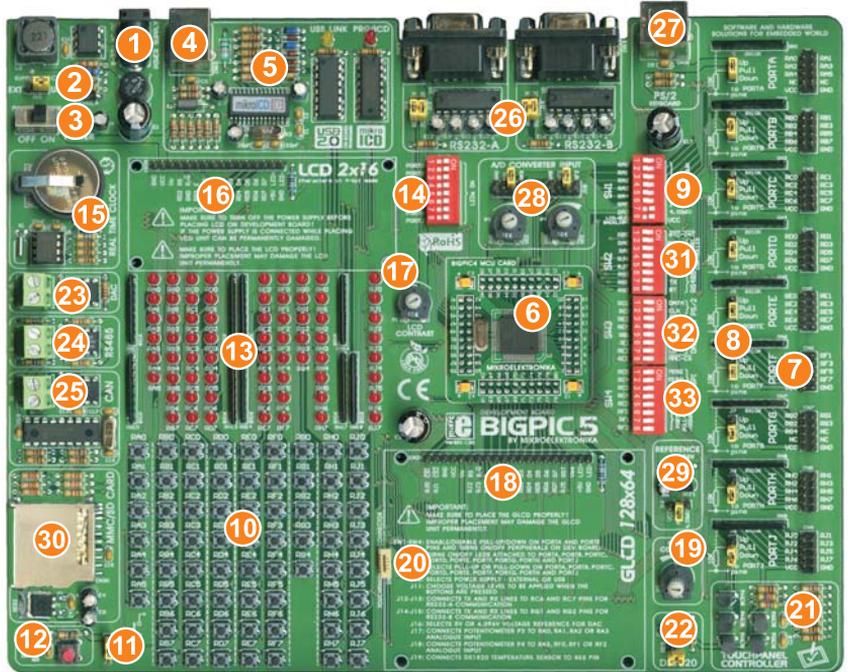# BigPIC5
KEY FEATURES

1. External power supply of 8v to 16v AC/DC.
2. Selectable external and USB power supply. When using USB port, there is no need for external power supply.
3. Power on/off switch.
4. USB connector.
5. Very fast and flexible on-board USB programmer with mikroICD (In-Circuit Debugger). Its key feature is ability to upgrade. By downloading a new software, it will be possible to program new MCUs in coming years.
6. MCU Card supports all 64 and 80 pin PIC MCUs.
7. Direct port access connectors.
8. Jumpers to determine input pin performance in idle state (connected to pull-up or pull-down resistor).
9. Switch group SW1 enables pull-up/pull-down resistors on PORTA pins RA0-RA5, reference voltage for MCUs A/D converter and LCD/GLCD backlight.
10. 67 push-buttons allow control of all the microcontroller pins.
11. Jumper to select high or low state of pins on push-button press.
12. RESET push-button.
13. Each I/O pin corresponds to one LED.
14. Switch group SW5 allows all LEDs on ports A, B, C, D, E, F, G, H and J to be connected or disconnected from MCU pins.
15. On-board real-time clock/calendar.
16. 16x2 characters LCD display connector.
17. Potentiometer for LCD contrast adjustment.
18. Graphic LCD display (GLCD) connector.
19. Potentiometer for GLCD contrast adjustment.
20. Touch panel connector.
21. Touch panel controller.
22. DS1820 temperature sensor allows temperature measurement with 0.5 C accuracy.

23. 12-bit D/A connector.
24. RS-485 communication module.
25. CAN communication module.
26. Two RS232 communication ports- RS232 A and RS232 B.
27. PS/2 keyboard connector.
28. For testing purposes, several pins on PORTA and PORTF can be connected to potentiometers P3 and P4 and as such can be used as inputs for measurement variable voltages set by these potentiometers.
29. Precise 4.096V voltage reference.
30. MMC/SD slot for multimedia cards with up to 2GB storage space.
31. Switch group SW2 enables real-time clock alarm signal, touch panel controller and RS-485 controller.
32. Switch group SW3 enables PS/2 keyboard connection, CAN communication, D/A converter and MMC/SD card.
33. Switch group SW4 enables SPI and I^2C communication module and pull-up/pull-down resistors on some PORTF pins.