100-pin TQFP PT MCU CARD 2 with PIC32MX460F512L
Card information

The PT MCU CARD 2 is shown on Figure 1. It contains PIC32MX460F512L microcontroller with on-chip peripherals and is a great choice for both beginners and professionals. After testing and building the final program, this card can also be taken out of the board socket and used in your final device.

1. **PIC32MX460F512L** has 80MHz maximum frequency, 512K bytes of program memory (flash), 32K bytes of data memory. It has USB (OTG, Host, Device), 85 General purpose I/O pins, 5 16-bit timers, 10-bit ADC (16 ch), 2 UARTs, internal 8 MHz and 32kHz oscillators, internal Real time clock (RTC), 2 I2C, 2 SPI controllers. It also contains 2 analog comparators and programming and debugging interface.

2. **8MHz crystal oscillator.** We carefully chose the most convenient crystal value that provides clock frequency which can be used directly, or with the PLL multipliers to create higher MCU clock value. MCU card also contains 32.768 kHz crystal oscillator which provides external clock waveform for RTCC module.

3. **USB communications lines.** These two jumpers, when in USB position, connect D+ and D- lines of the on-board USB connector with RG2 and RG3 microcontroller pins. Since PIC32MX460F512L supports USB, jumpers are in USB position.

Figure 1: MCU card with PIC32MX460F512L
Figure 2: MCU card schematic
Card dimensions

Figure 3: MCU card dimensions.
If you want to learn more about our products, please visit our website at www.mikroe.com.
If you are experiencing some problems with any of our products or just need additional information, please place your ticket at www.mikroe.com/esupport.
If you have any questions, comments or business proposals, do not hesitate to contact us at office@mikroe.com.