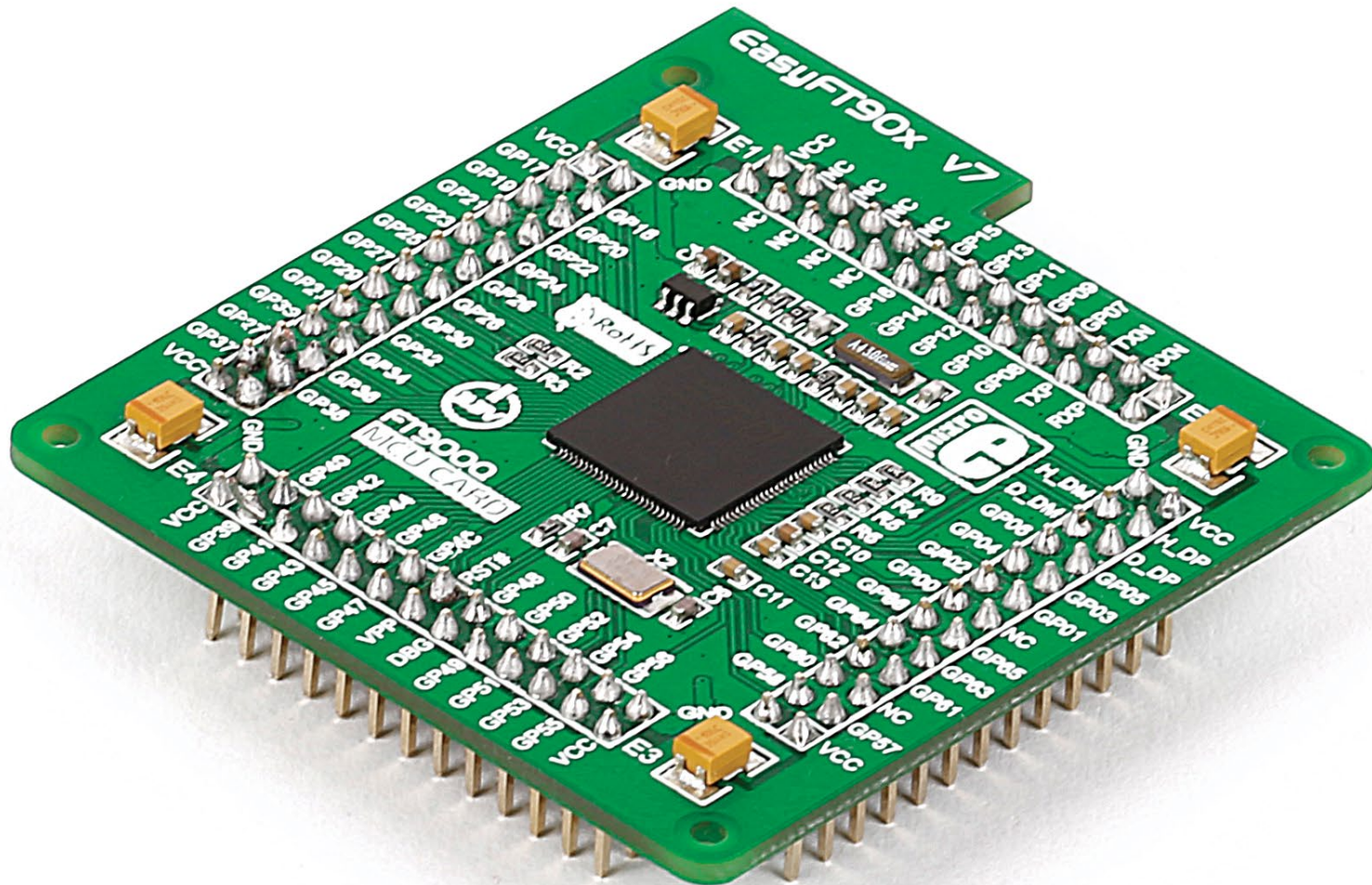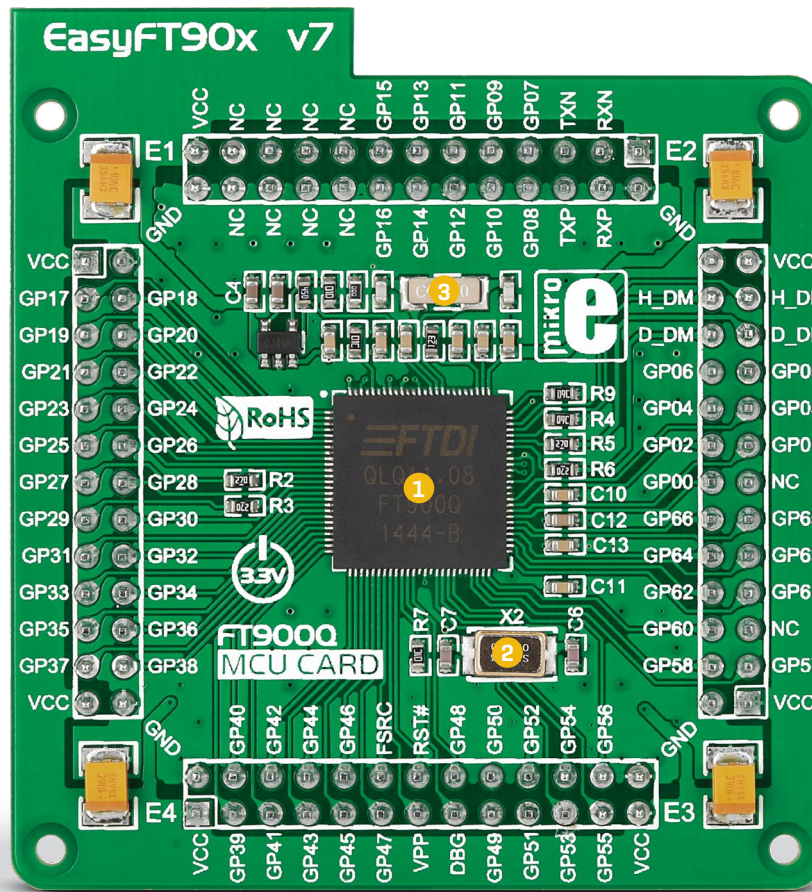# EasyFT90x v7 MCU card
with *FT900 QFN*-100

MCU card information

This is the default MCU card that comes with EasyFT90x v7. It contains the FT900 microcontroller with on-chip peripherals. After testing and building the final program, this card can also be taken out of the board socket and used in your final device.

Figure 1:
MCU card
with FT900

1 FT900 has 100MHz maximum frequency, 256KB of Flash, 64KB of on-chip data memory and 256KB of Shadow program memory. It has an integrated Parallel Camera Interface, Ethernet, USB (Host, Device), 65 General purpose I/O pins, 4 x 16-bit timers with 32-bit watchdog function, 7 Analog Input pins (ADC), 2 UARTs, I^2S master/slave interface, internal slow clock oscillator, 2 x I^2C (master/slave), SPI (master/slave) and 2xCAN controllers, and a debug interface.

2 12MHz crystal oscillator. We carefully chose the most convenient crystal value that provides clock frequency for the PLL multipliers.

3 MCU card also contains 32.768 kHz crystal oscillator which provides external clock waveform for the internal RTCC module.
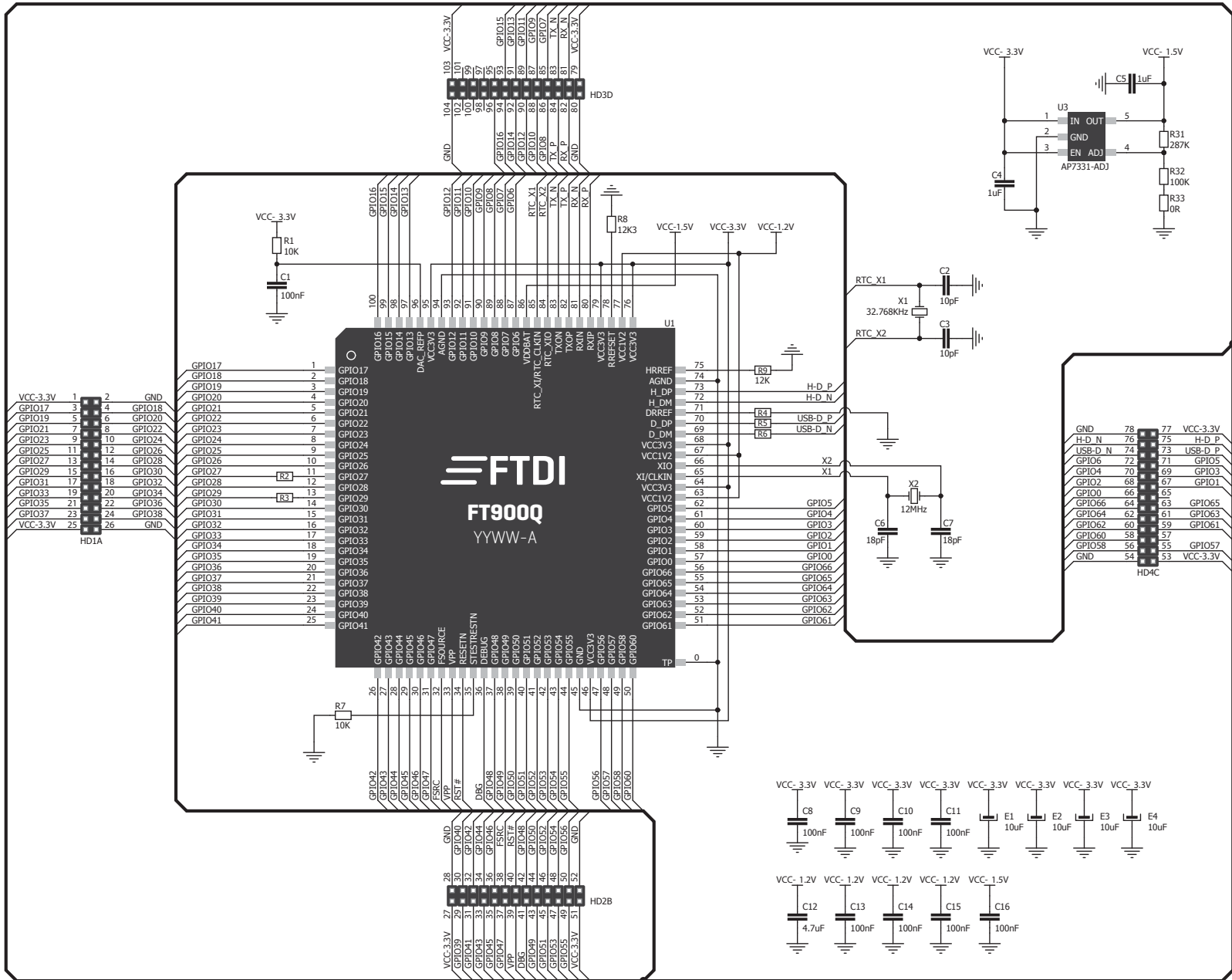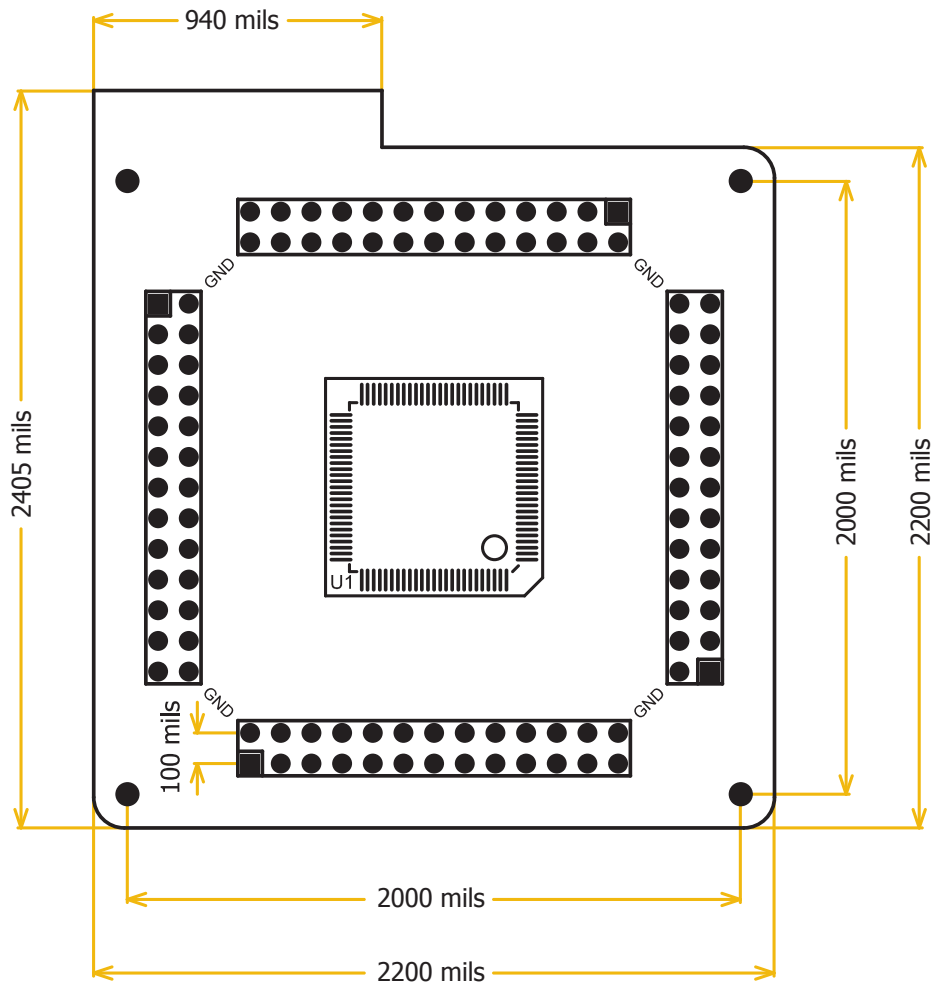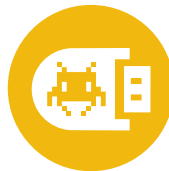
Figure 2: MCU card schematic

Figure 3: MCU card dimensions

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