EasyPIC FUSION v7 ETH MCUcard with PIC32MZ2048EFH144

PID: MIKROE-2714

This particular EasyPIC FUSION v7 ETH MCUcard contains the PIC32MZ2048EFH144 microcontroller with on-chip peripherals. It's 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.

MCU card features

PIC32MZ2048EFH144 - a 32-bit MCU with 512 KB of SRAM and 2MB of Flash, 250MHz maximum frequency, an internal oscillator, audio and graphic interfaces, Ethernet and more.

The MCU also contains an internal RTC (Real Time Clock), a 12-bit ADC (18 MSPS, 48-channel ADC module), and a Crypto Engine with an RNG for data encryption/decryption and authentication (AES, 3DES, SHA, MD5, and HMAC), etc.

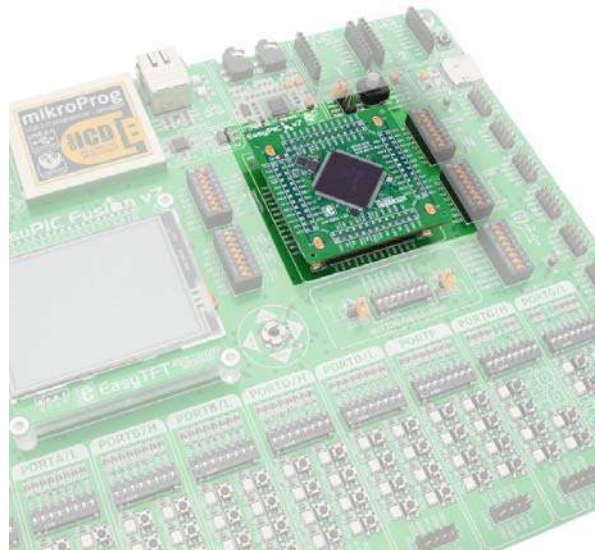**32.768KHz crystal** — Provides external clock waveform for RTCC module.

24MHz oscillator — Provides the clock frequency for PIC32MZ2048EFH144 MCU.

25MHz crystal — Provides clock for external Ethernet module.

Ethernet transceiver —This MCU card contains single-chip Ethernet physical (PHY) layer transceiver which provides additional Ethernet functionality to the PIC32MZ2048EFH144 controller. Compliant with IEEE802.3/802.3u (Fast Ethernet) and with ISO 802-3/IEEE 802.3 (10BASE-T).

SPECIFICATION

Architecture	PIC32 (32-bit)
MCU	PIC32MZ2048EFH144
MCU speed	250MHz
MCU Memory	512 KB of SRAM and 2MB of Flash
Key Features	Up to 252 MHz/415 DMIPS, MIPS Warrior M-class core, 12-bit, 18 MSPS, 48-channel ADC module, Hi-Speed USB 2.0 Device/Host/OTG, 10/100 Mbps Ethernet MAC with MII and RMII interface; CAN, UART, I2C, PMP, EBI, SQI & Analog Comparators
Input Voltage	3.3V

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