

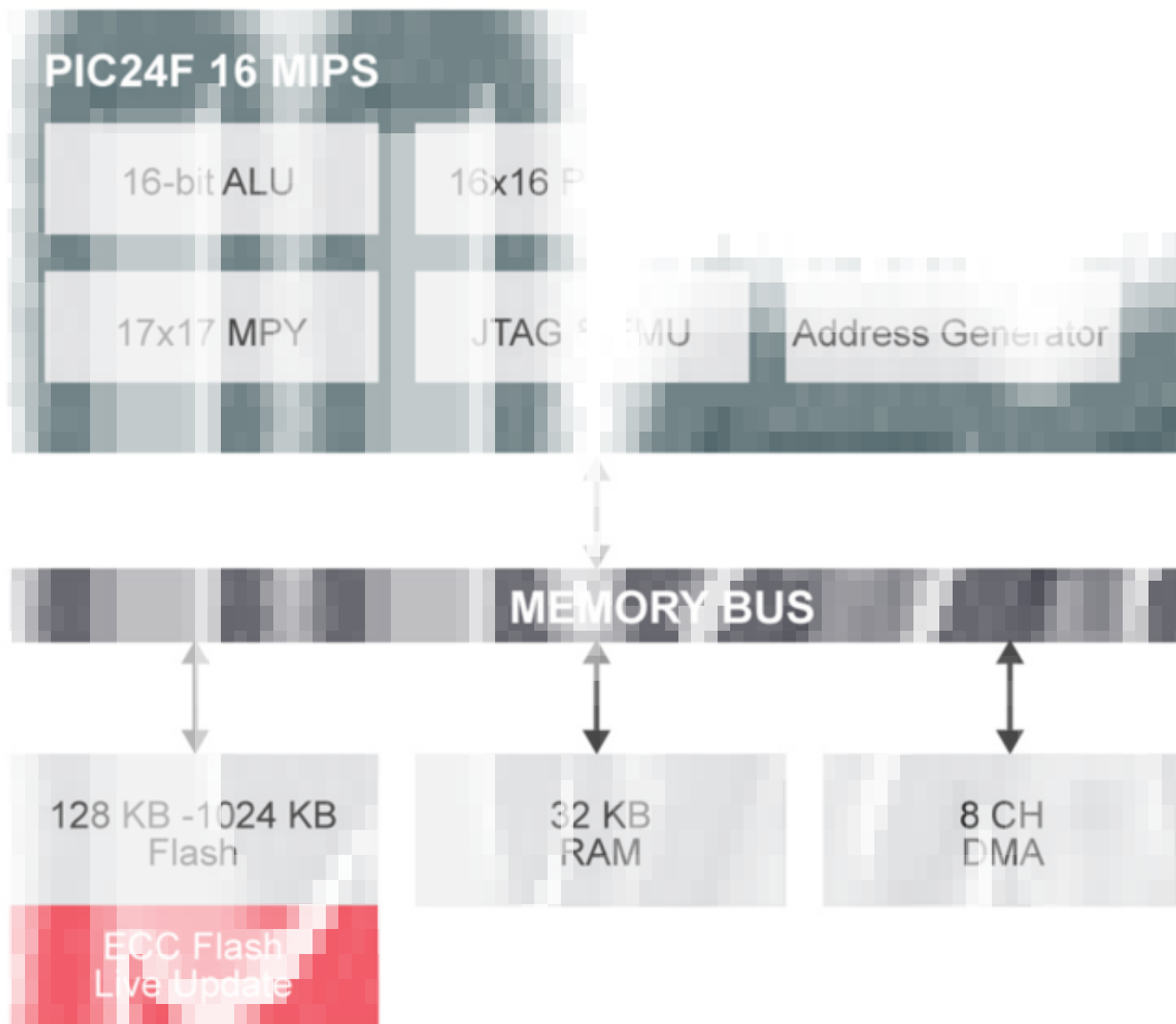
Microchip rozšíril ponuku o novú rodinu 16-bitových mikrokontrolérov PIC24F s označením “GB6”, s pridanou Flash (ECC) pamäťou až do 1MB a RAM až do 32KB.

Vlastnosti

- CPU
 - Modified Harvard Architecture
 - Up to 16 MIPS Operation @ 32 MHz
 - 8 MHz Internal Oscillator:
 - 96 MHz PLL option
 - Multiple clock divide options
 - Run-time self-calibration capability for maintaining better than $\pm 0.20\%$ accuracy
 - Fast start-up
 - 17-Bit x 17-Bit Single-Cycle Hardware Fractional/Integer Multiplier
 - 32-Bit by 16-Bit Hardware Divider
 - 16 x 16-Bit Working Register Array
 - C Compiler Optimized Instruction Set Architecture
 - Two Address Generation Units for Separate Read and Write Addressing of Data Memory
- Analog Features
 - 10/12-Bit, up to 24-Channel Analog-to-Digital (A/D) Converter:
 - 12-bit conversion rate of 200 ksps
 - Auto-scan and threshold compare features
 - Conversion available during Sleep
 - Three Rail-to-Rail, Enhanced Analog Comparators with Programmable Input/Output Configuration
 - Charge Time Measurement Unit (CTMU):
 - Used for capacitive touch sensing, up to 24 channels
 - Time measurement down to 100 ps resolution
- Dual Partition Flash with Live Update Capability
 - Capable of Holding Two Independent Software Applications, including Bootloader
 - Permits Simultaneous Programming of One Partition while Executing Application Code from the Other
 - Allows Run-Time Switching Between Active Partitions
- Low-Power Features
 - Sleep and Idle modes Selectively Shut Down Peripherals and/or Core for Substantial Power Reduction and Fast Wake-up
 - Doze mode Allows CPU to Run at a Lower Clock Speed than Peripherals
 - Alternate Clock modes Allow On-the-Fly Switching to a Lower Clock Speed for Selective Power Reduction
 - Wide Range Digitally Controlled Oscillator (DCO) for Fast Start-up and Low-Power Operation
- Universal Serial Bus Features
 - USB v2.0 On-The-Go (OTG) Compliant
 - Low-Speed (1.5 Mb/s) and Full-Speed (12 Mb/s) USB Operation in Host mode
 - Full-Speed USB Operation in Device mode

- High-Precision PLL for USB
- USB Device mode Operation from FRC Oscillator – No Crystal Oscillator Required
- On-Chip USB Transceiver with Interface for Off-Chip USB Transceiver
- Supports Control, Interrupt, Isochronous and Bulk Transfers
- On-Chip Pull-up and Pull-Down Resistors

Blokové zapojenie



Cena

[Microchip direct](#) ponúka PIC24FJ1024GB610T-I/PT v púzdre TQFP100 za 4,20 Eur za kusové množstvo.

Odkazy

[GB6 Family Datasheet](#)

Distribúcia

[vid'. Adresár](#)