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Achieve 20-25 years of battery lifetime, and the high performance of the 32-bit ARM Cortex-M3 with Energy Micro's new EFM32 microcontroller

06-01-2010


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Energy Micro is proud to introduce the EFM32 microcontroller family, which has an energy consumption that is many times lower than any other microcontroller family today, whether you benchmark with leading 8, 16 or 32 bit microcontrollers. With the EFM32 you can easily obtain battery lifetime in the 20-25 years range while at the same providing the high performance of the 32-bit ARM Cortex-M3.

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Features:

- 32-bit ARM Cortex-M3 running up to 32 MHz
 - 1.25 DMIPS/MHz
 - Superior Math Capability
- Single 1.8 to 3.8 volt power supply
- -40° to 85°C operation range

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- Up to 32 KB Flash and 4 KB RAM memory
- Up to 56 GPIO with 20 mA drive strength
- 16 External Interrupts
- Direct memory access Controller (DMA)
- Peripheral Reflex System for autonomous operation
- Hardware AES with 128/256-bit encryption/decryption
- Integrated high and low frequency oscillators
- USARTs with UART and SPI modes up to 16 Mbit/s
- Low Energy UART with 100 nA receive mode
- 16-bit Timer/Counters with Compare/Capture
- Low Energy TIMER with optional pulse outputs
- Flexible 24-bit Real Time Counter
- Pulse Counter
- Configurable LCD Controller driving up to 4×24 segments
- 12-bit ADC, 1 Msamples/s, 8 channels
- 12-bit DAC, 500 ksamples/s, 2 channels
- Analog Comparators with 8 input mux and capacitive sensing capability
- On-chip Power-on Reset and Brown-out Detector

EFM32TG Lineup

Part number	Family	Core Variant	Freq.	Flash/ROM	Package
EFM32TG200F32	EFM32TG	ARM Cortex-M3	32MHz	32768	QFN 32
EFM32TG200F16			32MHz	16384	QFN 32
EFM32TG200F8			32MHz	8192	QFN 32
EFM32TG840F32			32MHz	32768	QFN 64
EFM32TG840F16			32MHz	16384	QFN 64

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