



## MCF51MM Flexi 32-bit Cold Fire V1 Microcontrollers

### General Description:

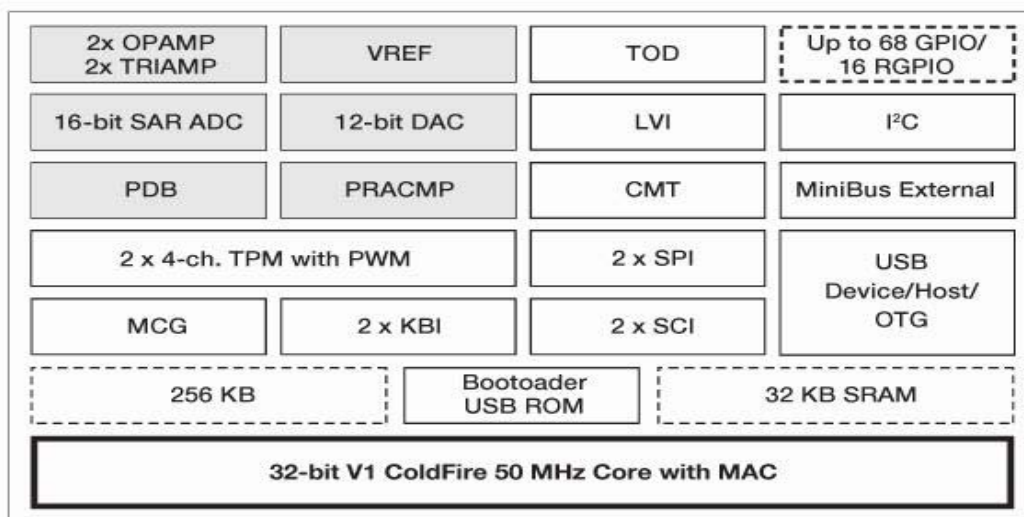
The MCF51MM256/128 provides ultra-low-power operation, USB connectivity, graphic display support and unparalleled measurement accuracy, all in a single 32-bit microcontroller, allowing device designers to create more fully featured products at a lower cost.

The MCF51MM256/128 is ideal for medical applications or any other application requiring a significant amount of precision analog such as instrumentation and industrial control.

The MCF51MM256/128 is part of the Freescale Flexi microcontroller series.



**MCF51MM256 Block Diagram**



### Key Features:

- ColdFire V1 core delivering a 50 MHz core speed and 25 MHz bus speed
- Up to 256 KB flash and 32 KB SRAM
- Low-power Stop 2 current:500 nA (32K of active SRAM)
- 2 x OPAMP - General Purpose Opamps
- 2 X TRIAMP - Transimpedance Amplifiers

- 16-bit SAR ADC - High resolution ADC
- PRACMP - Analog Comparator with 5bit DAC
- VREF - Internal Voltage Reference
- USB - Device / Host / OTG controller
- 2 x SPI, 2 x SCI and 1 x I2C
- Mini FlexBus (external bus interface)

## Applications:

- Blood Glucose Meters
- Blood Pressure Monitors
- Heart Rate Monitors
- One Lead ECG
- Telehealth Devices
- Pulse Oximeters
- Implantables
- Clinical Equipment

## Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
MCF51MM256CLK	1812182	74R4417	MCF51MM Flexi 32-bit Cold Fire V1 Microcontrollers--80LQFP
MCF51MM256CLL	-	68R9206	MCF51MM Flexi 32-bit Cold Fire V1 Microcontrollers--100LQFP