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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.

256 K B			toader 32 KB SRAM		
MCG	2 x KBI		2 x SCI		ота
2 x 4-ch. TPM with PWM			2 x SPI		USB Device/Host/
PDB	PRACMP		СМТ		MiniBus Externa
6-bit SAR ADC	12-bit DAC		LVI		l²C
2x OPAMP 2x TRIAMP	VREF		TOD		Up to 68 GPIO/ 16 RGPIO

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

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- 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



