

Kinetis KE1xF-168MHz, Performance with CAN 5V Microcontrollers based on Arm® Cortex®-M4

KE1xF

Last Updated: Jul 31, 2023

Kinetis KE1xF MCUs are the high end series MCUs in Kinetis E family, providing robust 5V solution with the high performance Arm® Cortex®-M4 core running at up to 168 MHz. The Kinetis KE1xF MCU family also integrates CAN 2.0B compliant FlexCAN provides high reliable serial communication interface for industry applications, and rich suite of communication interfaces including LPUARTs, LPI2Cs, LPSPIs, and FlexIO.

5V Robust Arm Cortex-M4 Core MCUs with CAN Block Diagram

Core		System	Memories		Clocks
Arm [®] Cortex [®] -M4F Core 168 MHz		16-ch. eDMA	512 KB Flash with ECC	64 KB SRAM with ECC	3-40 M/32 K OSC
Debug Interfaces	DSP	TRGMUX	4 KB EEPROM	Boot ROM	FIRC 48 MHz (1%)
Interupt Controller	FPU	MPU	8 KB I/D Cache		SIRC 8 MHz (3%)
		2.7~5.5 V PMC			128 K LPO
					PLL
Security and Integrity	Analog	Timers	Communication Interfaces		НМІ
CRC	3 x 12-bit ADC	4 x FlexTimer	2 x LPI ² C	2 x LPSPI	Robust I/O
UID	2 x ACMP	3 x PDB	3 x LPUART	2 x FlexCAN	8 pins 20 mA
FAC	1 x 12-bit DAC	LPIT	FlexIO		
WDOG/EWM		LPTMR			
		PWT			
LVD/POR		RTC			
Optional					

View additional information for Kinetis KE1xF-168MHz, Performance with CAN 5V Microcontrollers based on Arm® Cortex®-M4.

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