



# 运行速率高达72MHz，5V主流**CM0 + MCU**， 带有恩智浦触摸**(TSI)**和**CAN**控制功能

## KE1xZ

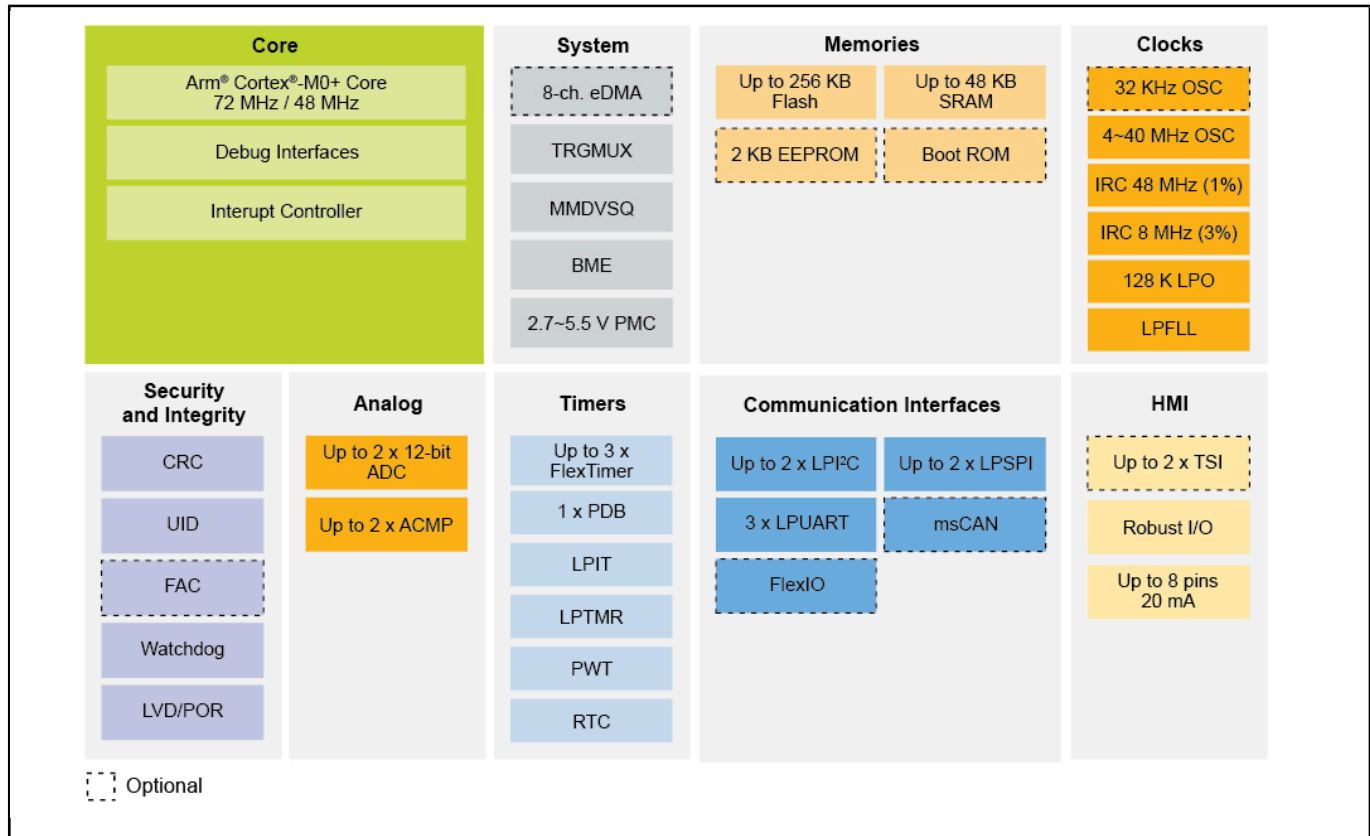
Last Updated: Jul 8, 2022

KE1xZ系列 MCU基于Arm® Cortex®-M0+内核，运行频率高达72 MHz。本系列MCU可支持高达256 KB的闪存、32 KB RAM，以及一套完备的模拟/数字功能。耐用的TSI模块能够为任何HMI系统提供极高的稳定性和准确性。1-Msps ADC和FlexTimer模块为BLDC电机控制系统提供了绝佳的解决方案。

MSCAN IP是继汽车市场应用之后CAN节点控制和自动化的理想选择。

该设备完全由恩智浦的MCUXpresso软件和工具提供支持，这是一套针对Kinetis、LPC和i.MX RT微控制器的综合性免费软件开发工具。MCUXpresso SDK还包括了Keil MDK和IAR Embedded Workbench for Arm的项目文件。

# Kinetis KE1xZ MCU Family Block Diagram Block Diagram



# Kinetis KE1xZ MCU Family Block Diagram

## KINETIS KE1xZ MCU FAMILY OPTIONS

Sub-Family	Part Number	CPU	Memory			Features										Package				
			Flash	SRAM	EEPROM	LPUART	LP5PI	LP12C	TSI	CAN	FlexIO	16-bit PWM	12-bit ADC	ACMP	FlexTimer	Total GPIOs	LQFP44	LQFP48	LQFP64	LQFP100
KE12Z	MKE12Z128V**7	72	128 KB	32 KB		3	1	1			√	16-ch.	1	1	3	58/89			√	√
KE12Z	MKE12Z256V**7	72	256 KB	48 KB		3	1	1			√	16-ch.	1	1	3	58/89			√	√
KE13Z	MKE13Z128V**7	72	128 KB	32 KB		3	1	1	1x 25-ch.		√	16-ch.	1	1	3	58/89			√	√
KE13Z	MKE13Z256V**7	72	256 KB	48 KB		3	1	1	1x 25-ch.		√	16-ch.	1	1	3	58/89			√	√
KE14Z	MKE14Z32V**4	48	32 KB	4 KB		3	1	1				8-ch.	1	1	2	38/42	√	√		
KE14Z	MKE14Z64V**4	48	64 KB	8 KB		3	1	1				8-ch.	1	1	2	38/42	√	√		
KE14Z	MKE14Z128V**7	72	128 KB	16 KB	2 KB <sup>1</sup>	3	2	2			√	16-ch.	2	2	3	58/89			√	√
KE14Z	MKE14Z256V**7	72	256 KB	32 KB	2 KB <sup>1</sup>	3	2	2			√	16-ch.	2	2	3	58/89			√	√
KE15Z	MKE15Z32V**4	48	32 KB	4 KB		3	1	1	1x 25-ch.			8-ch.	1	1	2	38/42	√	√		
KE15Z	MKE15Z64V**4	48	64 KB	8 KB		3	1	1	1x 25-ch.			8-ch.	1	1	2	38/42	√	√		
KE15Z	MKE15Z128V**7	72	128 KB	16 KB	2 KB <sup>1</sup>	3	2	2	1x 25-ch.		√	16-ch.	2	2	3	58/89			√	√
KE15Z	MKE15Z256V**7	72	256 KB	32 KB	2 KB <sup>1</sup>	3	2	2	1x 25-ch.		√	16-ch.	2	2	3	58/89			√	√
KE16Z	MKE16Z32V**4	48	32 KB	4 KB		3	1	1	1x 25-ch.	√		8-ch.	1	1	2	38/42	√	√		
KE16Z	MKE16Z64V**4	48	64 KB	8 KB		3	1	1	1x 25-ch.	√		8-ch.	1	1	2	38/42	√	√		
KE17Z	MKE17Z128V**7	72	128 KB	32 KB		3	1	1	2x 25-ch.		√	16-ch.	1	1	3	58/89			√	√
KE17Z	MKE17Z256V**7	72	256 KB	48 KB		3	1	1	2x 25-ch.		√	16-ch.	1	1	3	58/89			√	√

<sup>1</sup> 32 KB FlexNVM for data flash that can emulate as 2 KB EEPROM

View additional information for [运行速率高达72MHz，5V主流CM0 + MCU，带有恩智浦触摸\(TSI\)和CAN控制功能.](#)

Note: The information on this document is subject to change without notice.

[www.nxp.com](http://www.nxp.com)

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.