Kinetis® KE02-40 MHz, Entry-Level Microcontrollers (MCUs) based on Arm® Cortex® -M0+ Core
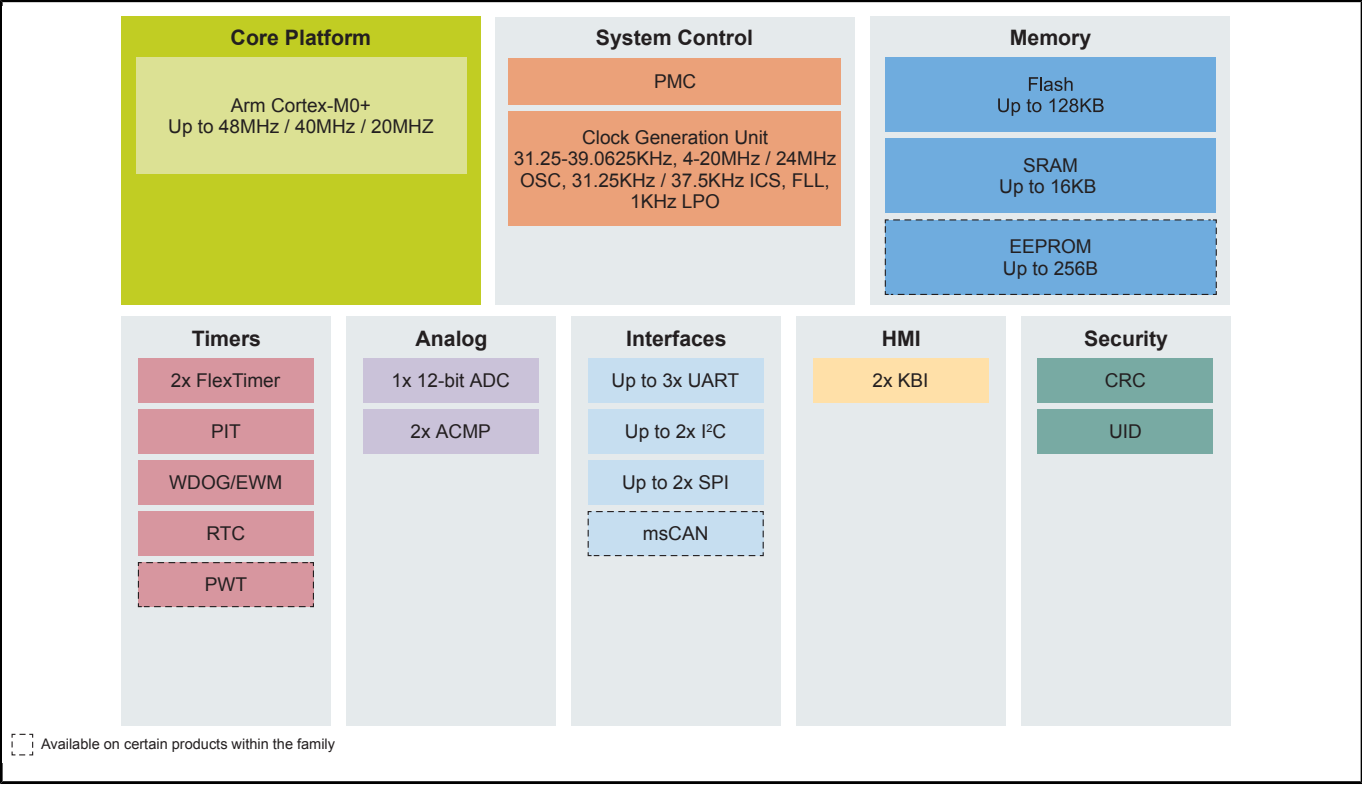
KE02_40

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The Kinetis® KE02 40 MHz MCU family delivers a next-generation solution with enhanced ESD/EMC performance for cost-sensitive, high-reliability device applications used in high electrical noise environments.

- Offers a cost-effective 32-bit solution featuring low power and high robustness
- Includes a powerful array of analog, communication and timing, and control peripherals with varying flash memory size and pin count
- Provides a pin-compatible entry point to the Kinetis E series portfolio, as well as pin compatibility with Our 8-bit S08P family

KE0xZ MCU Family Block Diagram

Core Platform

Arm Cortex-M0+
Up to 48MHz / 40MHz / 20MHZ

System Control

PMC

Clock Generation Unit
31.25-39.0625KHz, 4-20MHz / 24MHz
OSC, 31.25KHz / 37.5KHz ICS, FLL,
1KHz LPO

Memory

Flash
Up to 128KB

SRAM
Up to 16KB

EEPROM
Up to 256B

Timers

2x FlexTimer

PIT

WDOG/EWM

RTC

PWT

Analog

1x 12-bit ADC

2x ACMP

Interfaces

Up to 3x UART

Up to 2x I²C

Up to 2x SPI

msCAN

HMI

2x KBI

Security

CRC

UID

Available on certain products within the family

View additional information for Kinetis® KE02-40 MHz, Entry-Level Microcontrollers (MCUs) based on Arm® Cortex® -M0+ Core.

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