

## NXP KV3x-100-120 MHz Advanced 3ph FOC Sensorless Motor Control MCUs based on Arm Instructions

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*NXP KV3x-100-120 MHz Advanced 3ph FOC Sensorless Motor  
Control MCUs based on Arm Instructions*



# Kinetis® KV3x-100–120 MHz, Advanced 3ph FOC / Sensorless Motor Control MCUs based on Arm® Cortex®-M4

## KV3x

Last Updated: Jul 4, 2022

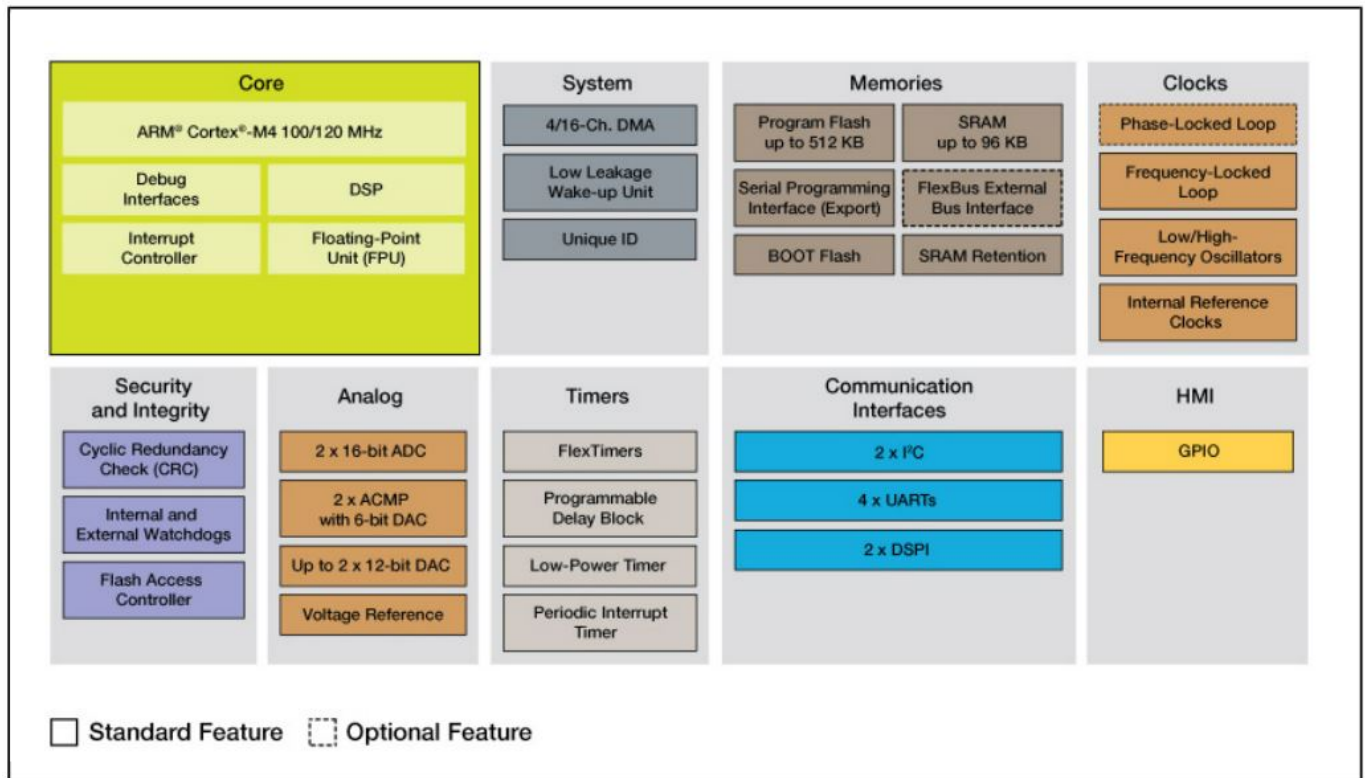
The Kinetis® KV3x family of MCUs delivers a high-performance solution for BLDC, PMSM and ACIM motor control applications.

Built upon the Arm® Cortex®-M4 core running at 100 or 120 MHz with DSP instruction set and floating point unit, the KV3 devices feature dual 16-bit analog-to-digital converters (ADCs) sampling at up to 1.2 mega samples per second (MSPS) in 12-bit mode, multiple motor control timers, 64 to 512 KB of flash memory and a comprehensive enablement suite from proprietary and third-party resources, including reference designs for ACIM, BLDC and PMSM motor control built on NXP®'s. Embedded Software libraries and motor configuration tools.

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## Kinetis V Series KV3x MCUs Block Diagram Block Diagram




View additional information for [Kinetis® KV3x-100/120 MHz, Advanced 3ph FOC / Sensorless Motor Control MCUs based on Arm® Cortex®-M4](#).

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

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## Documents / Resources

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| <br>Kinetis® KV3x-100-120 MHz, Advanced 3ph FOC / Sensorless Motor Control MCUs based on Arm® Cortex®-M4 | <a href="#">NXP KV3x-100-120 MHz Advanced 3ph FOC Sensorless Motor Control MCUs based on Arm [pdf] Instructions</a><br>KV3x-100 120 MHz Advanced 3ph FOC Sensorless Motor Control MCUs based on Arm, KV3x-100 120, MHz Advanced 3ph FOC Sensorless Motor Control MCUs based on Arm, Sensorless Motor Control MCUs based on Arm, MCUs based on Arm, Arm |
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## References

-  [NXP® Semiconductors Official Site](#) | [NXP Semiconductors](#)

Manuals+.