

Processors and Microcontrollers

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| <p>KL Series Cortex-M0+</p> | <p>KL28 : Kinetis® KL28-72/96 MHz, 512KB Flash, USB, Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KL3x : Kinetis® KL3x-48 MHz, Segment LCD Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KL1x : Kinetis® KL1x-48 MHz, Mainstream Small Ultra-Low Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KL4x : Kinetis® KL4x-48 MHz, USB, Segment LCD, Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KL2x : Kinetis® KL2x-72/96 MHz, USB Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KL8x : Kinetis® KL8x-72/96 MHz Secure Ultra-Low Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KL0x : Kinetis® KL0x-48 MHz, Entry-Level Ultra-Low Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> |
| <p>K4x USB & Segment LCD</p> | <p>K40_100 : Kinetis® K40-100 MHz, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K40_72 : Kinetis® K40-72 MHz, Mixed-Signal Integration Microcontrollers based on Arm® Cortex®-M4 Core</p> |
| <p>K6x Ethernet</p> | <p>K65_180 : Kinetis® K65-180 MHz, Dual High-Speed & Full-speed USBs, 2MB Flash, Anti-Tamper Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K60_120 : Kinetis® K60/61-120–150 MHz, Mixed-Signal Integration & anti-tamper Microcontrollers based on Arm® Cortex®-M4 Core</p> <p>K60_100 : Kinetis® K60-100 MHz, Mixed-Signal Integration Microcontrollers based on Arm® Cortex®-M4 Core</p> <p>K63_120 : Kinetis® K63-120 MHz, 256KB SRAM, Anti-Tamper Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K64_120 : Kinetis® K64-120 MHz, 256 KB SRAM Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K66_180 : Kinetis® K66-180 MHz, Dual High-Speed & Full-speed USBs, 2MB Flash Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> |
| <p>K2x USB</p> | <p>K21_120 : Kinetis K21-120 MHz, Full-Speed USB, Anti-Tamper Microcontrollers based on Arm® Cortex®-M4</p> <p>K20_72 : Kinetis® K20-72 MHz, Full-Speed USB, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K24_120 : Kinetis® K24-120 MHz, Full-Speed USB, 256KB SRAM Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K26_180 : Kinetis® K26-180 MHz, Dual High-Speed & Full-speed USBs, 2MB Flash Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K22_100 : Kinetis® K22-100 MHz, Cost Effective, Full-Speed USB Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K20_120 : Kinetis® K20-120 MHz, Full-Speed USB, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K20_100 : Kinetis® K20-100 MHz, Full-Speed USB, Mixed-Signal Integration Microcontrollers based on Arm® Cortex®-M4 Core</p> <p>K28_150 : Kinetis® K28-150 MHz, 2x USB, Core Voltage Bypass, 2MB Flash,</p> |

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| | <p>1MB SRAM MCUs based on Arm® Cortex®-M4</p> <p>K21_50 : Kinetis® K21-50 MHz, Full-Speed USB, Anti-Tamper Microcontrollers based on Arm® Cortex®-M4 Core</p> <p>K22_50 : Kinetis® K22-50 MHz, Cost Effective, Full-Speed USB Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K22_120 : Kinetis® K22-120 MHz, Cost Effective, Full-Speed USB Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K20_50 : Kinetis® K20-50 MHz, Full-Speed USB, Mixed-Signal Integration Microcontrollers based on Arm® Cortex®-M4 Core</p> <p>K27_150 : Kinetis® K27-150 MHz, 2x USB, 2MB Flash, 1MB SRAM Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> |
| KE Series Cortex-M4/M0+ | <p>KE06 : Kinetis® KE06-48 MHz, Mainstream with CAN Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KE1xZ : up to 72MHz, 5V main stream CM0+ MCU with NXP Touch (TSI) and CAN control</p> <p>KE02_40 : Kinetis® KE02-40 MHz, Entry-Level Microcontrollers (MCUs) based on Arm® Cortex® -M0+ Core</p> <p>KE04 : Kinetis® KE04-48 MHz, Mainstream Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KE02 : Kinetis® KE02-20 MHz, Entry-Level Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>KE1xF : Kinetis KE1xF-168MHz, Performance with CAN 5V Microcontrollers based on Arm® Cortex®-M4</p> |
| K1x Mainstream | <p>K10_120 : Kinetis® K10-120 MHz, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K12_50 : Kinetis® K12-50 MHz, Microcontrollers (MCUs) with Optimized Features based on Arm® Cortex®-M4 Core</p> <p>K10_100 : Kinetis® K10-100 MHz, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K11_50 : Kinetis® K11-50 MHz, Anti-Tamper Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K10_50 : Kinetis K10-50 MHz, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K10_72 : Kinetis® K10-72 MHz, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> |
| LPC1200 Cortex-M0 | <p>LPC12D27FBD100 : Robust and Reliable 32-bit Microcontroller (MCU) based on Arm® Cortex®-M0 Core</p> <p>LPC1227FBD64 : 128kB flash, 8kB SRAM, LQFP64 package</p> |
| LPC1100 Cortex-M0+/M0 | <p>LPC1100 : Scalable Entry Level 32-bit Microcontroller (MCU) based on Arm Cortex-M0 Cores</p> <p>LPC11C00 : Scalable Entry Level 32-bit Microcontroller (MCU) based on Arm® Cortex®-M0 Cores</p> <p>LPC11E00 : Scalable Entry Level 32-bit Microcontroller (MCU) based on Arm® Cortex®-M0+ and Cortex®-M0 Cores</p> <p>LPC11XXLV : Scalable, Entry-Level 32-bit Microcontrollers (MCUs)</p> <p>LPC11AXX : Scalable, Entry-Level 32-bit Microcontrollers (MCUs)</p> |

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| | <p>LPC11D00 : Scalable Entry Level 32-bit Microcontroller (MCU) based on Arm® Cortex®-M0 Cores</p> <p>LPC11U00 : Scalable Entry Level 32-bit Microcontroller (MCU) based on Arm® Cortex®-M0+ and Cortex®-M0 Cores</p> |
| i.MX RT Series | <p>i.MX-RT1020 : i.MX RT1020 Crossover Processor with Arm® Cortex®-M7 core</p> <p>i.MX-RT1050 : i.MX RT1050 Crossover Processor with Arm® Cortex®-M7 core</p> <p>i.MX-RT1015 : i.MX RT1015 Crossover Processor with Arm® Cortex®-M7 core</p> <p>i.MX-RT1060 : i.MX RT1060 Crossover Processor with Arm® Cortex®-M7 core</p> |
| K8x Secure | <p>K81_150 : Kinetis K81-150 MHz HW Cryptographic Co-Processor, Anti-Tamper & QuadSPI Microcontrollers (MCUs) based on Arm®Cortex® -M4 Core</p> <p>K82_150 : Kinetis® K82-150 MHz HW Cryptographic Co-Processor & QuadSPI Microcontrollers (MCUs) based on Arm® Cortex® -M4 Core</p> <p>K80_150 : Kinetis® K80-150 MHz Advanced security & QuadSPI Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> |
| LPC800 Cortex-M0+ | <p>LPC8N04 : Low-Cost Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</p> <p>LPC82X : Low-Cost Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Cores</p> <p>LPC81X_LPC83X : Low-Cost Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Cores</p> |
| K3x Segment LCD | <p>K30_72 : Kinetis K30-72 MHz, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K30_100 : Kinetis® K30-100 MHz, Mixed-Signal Integration Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> |
| KV Series Cortex-M4/M0+/M7 | <p>KV4x : Kinetis KV4x-168 MHz, High Performance Motor / Power Conversion MCUs based on Arm® Cortex®-M4</p> <p>KV3x : Kinetis® KV3x-100–120 MHz, Advanced 3ph FOC / Sensorless Motor Control MCUs based on Arm® Cortex®-M4</p> <p>KV5x : Kinetis® KV5x-240 MHz, Motor Control and Power Conversion, Ethernet, MCUs based on Arm® Cortex®-M7</p> <p>KV1x : Kinetis® KV1x-75 MHz, Entry-level 3ph FOC / Sensorless Motor Control MCUs based on Arm® Cortex®-M0+</p> |
| K5x Measurement | <p>K50_100 : Kinetis® K50-100 MHz, USB Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K51_100 : Kinetis® K51-100 MHz, Segment LCD, USB Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K53_100 : Kinetis® K53-100 MHz, USB, Segment LCD, Ethernet Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K50_72 : Kinetis® K50-72 MHz, USB Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> <p>K51_72 : Kinetis® K51-72 MHz, Segment LCD, USB Microcontrollers (MCUs) based on Arm® Cortex®-M4 Core</p> |
| K0x Entry-Level | <p>K02_100 : Kinetis® K02-100 MHz, Microcontrollers (MCUs) with Optimized Features based on Arm® Cortex®-M4 Core</p> |

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| K7x Graphic LCD | K70_120 : Kinetis® K70-120–150 MHz, High-Speed USB, Ethernet, DDR and Anti-Tamper Microcontrollers based on Arm® Cortex®-M4 Core |
| KM Series Cortex-M0+ | KM3x : Kinetis® KM3x-50–75 MHz Precision Metrology with Segment LCD MCUs based on Arm® Cortex®-M0+ |
| LPC54000 Cortex-M4 | LPC546XX : Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm® Cortex®-M4 Core LPC540XX : Power-Efficient Microcontrollers (MCUs) with Advanced Peripherals Based on Arm® Cortex®-M4 Core |