Cyclone-FX: In-Circuit, Stand-Alone Production Programmers

Overview

The **CYCLONE FX** programmer is P&E's flagship high-speed, in-circuit, stand-alone programmer. It supports many NXP® processor families, offers vast on-board storage for programming images, provides target power, supports manual or automated programming, and has an easy-to-use touchscreen interface. Advanced features include serialization, programming count limitations, integration of dynamic data, encryption, target test, and execution of calibration code.

Programming may be launched by a single button press without a PC or automatically from a PC via the automated control SDK. The Cyclone FX may also be used as a debug probe during development. More info is available at pemicro.com/cyclone.

CYCLONE-FX Automated Programmer Test & Debug Interface

Supported Devices

Microcontrollers and Processors

- More Processors
  - 16-bit HC12 (Legacy)
    - 68HC812A4: 16-Bit Microcontroller
    - 68HC912B32: 16-Bit Automotive Microcontroller
    - 68HC912BC32: 16-Bit Automotive Microcontroller
    - 68HC912D60A: 16-Bit Automotive Microcontroller
    - 68HC912D60C: 16-Bit Automotive Microcontroller
    - 68HC912DG128A: 16-Bit Automotive Microcontroller
    - 68HC912DG128C: 16-Bit Automotive Microcontroller

- 68HC912DT128A: 16-Bit Automotive Microcontroller
- DSP5685x
  - DSP56858: Digital Signal Controller
- DSP56F80x
  - DSP56F801: Digital Signal Controller
  - DSP56F801FA60: Digital Signal Controller
  - DSP56F803: Digital Signal Controller
  - DSP56F805: Digital Signal Controller
  - DSP56F807: Digital Signal Controller
- DSP56F82x
  - DSP56F826: Digital Signal Controller
  - DSP56F827: Digital Signal Controller
- 8-bit HC08
  - HC08AB: 8-bit Embedded EEPROM for User Data Storage AB MCUs
  - HC08AP: 8-bit EEPROM Emulation AP MCUs
  - HC08AS-AZ: 8-bit with CAN AS and AZ MCUs
  - HC08EY: 8-bit General Purpose EY MCUs
  - HC08G: 8-bit General Purpose G MCUs
  - HC08GZ: 8-bit General Purpose with CAN GZ MCUs
  - HC08JB-JG-JT-JW: 8-bit General Purpose JB, JG, JT and JW MCUs
  - HC08JK-JL: 8-bit General Purpose JK and JL MCUs
  - HC08K: 8-bit USB K MCUs
  - HC08LJ-LK: 8-bit EEPROM Emulation LJ and LK MCUs
  - HC08MR: 8-bit General Purpose MR MCUs
  - HC08Q: 8-bit EEPROM Emulation Q MCUs
- MC56F80xx
  - MC56F800x: MC56F8006 and MCF56F8002 Digital Signal Controllers
- MC56F82xx
  - MC56F827xx: MC56F823xx and MC56F827xx Digital Signal Controllers
- MC56F84XXX
  - MC56F84xxx: Digital Signal Controllers
- 8-bit RS08
  - RS08KA: 8-bit General Purpose Ultra-Low-End Market KA MCUs
  - RS08KB: 8-bit RS08KB Family of Microcontrollers (MCUs)
  - RS08LA: 8-bit with LCD Driver LA MCUs
  - RS08LE: 8-bit with LCD Driver LE MCUs
- 8-bit S08 3.6V MCUs
  - S08GB: 8-bit General Purpose GB MCUs
  - S08GT: 8-bit General Purpose GT MCUs
  - S08GW: 8-bit LCD GW MCUs
  - S08JE: 8-bit Flexis® USB JE MCUs
  - S08LC: 8-bit LCD for Battery-Powered and Handheld LC MCUs
  - S08LH: 8-bit with LCD Driver LH MCUs
  - S08LL: 8-bit Segment LCD LL MCUs
  - S08MM: 8-bit Flexis® USB MM128/64/32 MCUs
  - S08QA: 8-bit QA MCUs
  - S08QB: 8-bit QB MCUs
  - S08QE: 8-bit Flexis® QE MCUs
  - S08QG: 8-bit Small Package QG MCUs
  - S08R: 8-bit S08RC, S08RD, S08RE and S08RG MCUs
- ARM Processors
  - Kinetis K0x Entry-level Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core
    - K02_100: Kinetis K02-100 MHz, Microcontrollers with Optimized Features based on ARM® Cortex®-M4
  - Kinetis® K1x Mainstream Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core
    - K10_100: Kinetis K10-100 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4
    - K10_120: Kinetis K10-120 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4
    - K10_50: Kinetis K10-50 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4
    - K10_72: Kinetis K10-72 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4
    - K11_50: Kinetis® K11-50 MHz, Anti-Tamper Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core
    - K12_50: Kinetis K12-50 MHz, Microcontrollers with Optimized Features based on ARM® Cortex®-M4
  - Kinetis® K2x USB Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

- K20_100: Kinetis K20-100 MHz, Full-Speed USB, Mixed-Signal Integration MCUs based on ARM® Cortex®-M4
- K20_120: Kinetis K20-120 MHz, Full-Speed USB, Mixed-Signal Integration MCUs based on ARM® Cortex®-M4
- K20_50: Kinetis K20-50 MHz, Full-Speed USB, Mixed-Signal Integration MCUs based on ARM® Cortex®-M4
- K20_72: Kinetis K20-72 MHz, Full-Speed USB, Mixed-Signal Integration MCUs based on ARM® Cortex®-M4
- K21_120: Kinetis K21-120 MHZ, Full-Speed USB, Anti-Tamper Microcontrollers based on ARM® Cortex®-M4
- K21_50: Kinetis K21-50 MHz, Full-Speed USB, Anti-Tamper Microcontrollers based on ARM® Cortex®-M4
- K22_100: Kinetis K22-100 MHz, Cost Effective, Full-Speed USB Microcontrollers based on ARM® Cortex®-M4
- K22_120: Kinetis K22-120 MHz, Cost Effective, Full-Speed USB Microcontrollers based on ARM® Cortex®-M4
- K22_50: Kinetis K22-50 MHz, Cost Effective, Full-Speed USB Microcontrollers based on ARM® Cortex®-M4
- K24_120: Kinetis K24-120 MHz, Full-Speed USB, 256KB SRAM Microcontrollers based on ARM® Cortex®-M4
- K26_180: Kinetis K26-180 MHz, Dual High-Speed & Full-speed USBs, 2MB Flash MCUs based on ARM® Cortex®-M4

Kinetis® K3x Segment LCD Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

- K30_100: Kinetis K30-100 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4
- K30_72: Kinetis K30-72 MHz, Mixed-Signal Integration Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

Kinetis® K4x USB & Segment LCD Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

- K40_100: Kinetis K40-100 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4
- K40_72: Kinetis K40-72 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4

Kinetis® K5x Measurement Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

- K50_100: Kinetis® K50-100 MHz, USB Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core
- K50_72: Kinetis® K50-72 MHz, USB Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core
- K51_100: Kinetis® K51-100 MHz, Segment LCD, USB Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core
- K51_72: Kinetis® K51-72 MHz, Segment LCD, USB Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core
- K53_100: Kinetis K53-100 MHz, USB, Segment LCD, Ethernet Microcontrollers based on ARM® Cortex®-M4

Kinetis® K6x Ethernet Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

- K60_100: Kinetis K60-100 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4
- K60_120: Kinetis K60-120–150 MHz, Mixed-Signal Integration Microcontrollers based on ARM® Cortex®-M4
- K63_120: Kinetis K63-120 MHz, 256KB SRAM, Anti-Tamper Microcontrollers based on ARM® Cortex®-M4
- K64_120: Kinetis® K64-120 MHz, 256KB SRAM Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core
- K65_180: Kinetis K65-180 MHz, Dual High-& Full-Speed USB, 2MB Flash, Anti-Tamper MCU based on ARM® Cortex®-M4
- K66_180: Kinetis K66-180 MHz, Dual High-Speed & Full-speed USBs, 2MB Flash MCUs based on ARM® Cortex®-M4

Kinetis® K7x Graphic LCD Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

- K70_120: Kinetis K70-120–150 MHz, High-Speed USB, Ethernet, DDR and Anti-Tamper MCUs based on ARM® Cortex®-M4

Kinetis K8x Secure Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

- K80_150: Kinetis K80-150 MHz Advanced security & QuadSPI Mircontrollers based on ARM® Cortex®-M4
- K81_150: Kinetis K81-150 MHz HW Cryptographic Co-Processor, Anti-Tamper, QuadSPI MCU based on ARM® Cortex®-M4
- K82_150: Kinetis K82-150 MHz HW Cryptographic Co-Processor & QuadSPI Mircontrollers based on ARM® Cortex®-M4

Kinetis® E Series: 5V, Robust Microcontrollers (MCUs) based on ARM® Cortex®-M0+/M4 Core

- KE02: Kinetis KE02-20 MHz, Entry-Level Microcontrollers (MCUs) based on ARM® Cortex®-M0+ Core
- KE02_40: Kinetis® KE02-40 MHz, Entry-Level Microcontrollers (MCUs) based on ARM® Cortex®-M0+ Core
- KE04: Kinetis® KE04-48 MHz, Mainstream Microcontrollers (MCUs) based on ARM® Cortex®-M0+ Core
- KE06: Kinetis KE06-48 MHz, Mainstream with CAN 5V Microcontrollers based on ARM® Cortex®-M0+

Kinetis® L Series: Ultra-Low Power Microcontrollers (MCUs) based on ARM® Cortex®-M0+ Core

- KL02: Kinetis KL02-48MHz, 2x I2C, Small package, Entry-Level Ultra-Low Power MCU based on ARM® Cortex®-M0+
- KL03: Kinetis KL03-48MHz, 1x I2C, Small package, Entry-Level Ultra-Low Power MCU based on ARM® Cortex®-M0+
- KL1x: Kinetis KL1x-48 MHz, Mainstream Small Ultra-Low Power Micrcontrollers based on ARM® Cortex®-M0+
- KL2x: Kinetis KL2x-48 MHz, USB Ultra-Low-Power Microcontrollers based on ARM® Cortex®-M0+
- KL3x: Kinetis KL3x-48 MHz, Segment LCD Ultra-Low-Power Microcontrollers based on ARM® Cortex®-M0+
- KL4x: Kinetis KL4x-48 MHz, USB, Segment LCD, Ultra-Low-Power Microcontrollers based on ARM® Cortex®-M0+
- KL8x: Kinetis KL8x-72/96 MHz Secure Ultra-Low Power Microcontrollers based on ARM® Cortex®-M0+

Kinetis® M Series: Metrology Microcontrollers (MCUs) based on ARM® Cortex®-M0+ Core

- KM1x: Kinetis KM1x-50 MHz, Mainstream Precision Metrology Microcontrollers based on ARM® Cortex®-M0+
- KM3x: Kinetis KM3x-50–75 MHz Precision Metrology with Segment LCD MCUs based on ARM® Cortex®-M0+

KS22 Microcontrollers (MCUs)

- KS22: KS22-120MHz Microcontrollers (MCUs) based on ARM® Cortex®-M4 Core

Kinetis V Series: Real-time Motor Control & Power Conversion MCUs based on ARM® Cortex®-M0+/M4/M7

- KV1x: Kinetis KV1x-75 MHz, Entry-level 3ph FOC / Sensorless Motor Control MCUs based on ARM® Cortex®-M0+
- KV3x: Kinetis KV3x-100–120 MHz, Advanced 3ph FOC / Sensorless Motor Control MCUs based on ARM® Cortex®-M4
- KV4x: Kinetis KV4x-168 MHz, High Performance Motor / Power Conversion MCUs based on ARM® Cortex®-M4
- KV5x: Kinetis KV5x-240 MHz, Motor Control and Power Conversion, Ethernet, MCUs based on ARM® Cortex®-M7

Kinetis® W Series: Wireless Connectivity Microcontrollers (MCUs) based on ARM® Cortex®-M0+/M4 Core

- KW0x: Kinetis KW0x-48 MHz, Sub-1 GHz Wireless Radio Microcontrollers based on ARM® Cortex®-M0+

KW20Z: Kinetis KW20Z-2.4 GHz 802.15.4 Wireless Radio Microcontroller based on ARM® Cortex®-M0+
KW30Z: Kinetis KW30Z-2.4 GHz Bluetooth Low Energy (BLE 4.1) Microcontroller based on ARM® Cortex®-M0+
KW40Z: Kinetis® KW40Z-2.4 GHz Dual Mode: BLE and 802.15.4 Wireless Radio Microcontroller (MCU) based on ARM® Cortex®-M0+ Core
Kinetis® Low Power 32-bit Microcontrollers (MCUs) based on ARM® Cortex®-M Cores
KW21Z: Kinetis KW21Z-2.4 GHz 802.15.4 Wireless Radio Microcontroller based on ARM® Cortex®-M0+
KW31Z: Kinetis KW31Z-2.4 GHz Bluetooth Low Energy (BLE 4.2) Microcontroller based on ARM® Cortex®-M0+
KW41Z: Kinetis® KW41Z-2.4 GHz Dual Mode: BLE and 802.15.4 Wireless Radio Microcontroller (MCU) based on ARM® Cortex®-M0+ Core
LPC1100 Series: Scalable Entry-level Microcontrollers (MCUs) based on ARM Cortex-M0+/M0 Cores
LPC1110FD20: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1111FDH20: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1111FHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1111JHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1112FD20: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1112FDH20: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1112FHI33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1112FHN24: 16kB flash, 4kB SRAM, HVQFN24 package
LPC1112FHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1112JHI33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1112JHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1112LVFHI33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1112LVFHN24: 16kB flash, 2kB SRAM, ADC, HVQFN24 package
LPC1113FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1113FHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1113JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1113JHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114FDH28: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114FHI33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114FHN33: 32kB flash, 8kB SRAM, HVQFN32 package
LPC1114FN28: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114JHI33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114JHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114LVFHI33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1114LVFHN24: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1115FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1115FET48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1115JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1115JET48: 64kB flash, 8kB SRAM, TFBGA48 package
LPC1124JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC1125JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11A02UK: 16kB flash, 4kB SRAM, WLCSP package
LPC11A04UK: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11A11FHN33: 8kB flash, 2kB SRAM, HVQFN32 package
LPC11A12FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11A12FHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11A13FHI33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11A13JHI33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11A14FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11A14FHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11A14JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11C12FBD48: 32kB flash, 8kB SRAM, ADC, LQFP48 package
LPC11C14FBD48: 32kB flash, 8kB SRAM, LQFP48 package
LPC11C22FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11C24FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11D14FBD100: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11E11FHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11E12FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11E13FBD48: 24kB flash, 8kB SRAM, LQFP48 package
LPC11E14FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
LPC11E14FBD64: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores

- LPC11E14FHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E35FHI33: delete
- LPC11E36FBD64: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E36FHN33: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E37FBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E37FBD64: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E37HFBD64: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E66JBD48: 32-bit ARM Cortex-M0+ microcontroller; up to 64 kB flash and 12 kB SRAM; 4 kB EEPROM; 12-bit ADC
- LPC11E67JBD100: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E67JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E67JBD64: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E68JBD100: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E68JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11E68JBD64: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11U12FHN33: 16kB flash, 6kB SRAM, HVQFN32 package
- LPC11U14FBD48: 32kB flash, 6kB SRAM, LQFP48 package
- LPC11U24FHN33: 32kB flash, 8kB SRAM, HVQFN32 package
- LPC11U34FBD48: 40kB flash, 8kB SRAM, LQFP48 package
- LPC11U35FHI33: 64kB flash, 12kB SRAM, HVQFN32 package
- LPC11U37FBD48: 128kB flash, 10kB SRAM, LQFP48 package
- LPC11U67JBD64: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores
- LPC11U68JBD48: Scalable Entry Level 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+/M0 Cores

LPC1200 Series: Robust and Reliable Microcontrollers (MCUs) based on ARM Cortex-M0 Cores

- LPC1224FBD48: 32kB flash, 4kB SRAM, LQFP48 package
- LPC1224FBD64: 32kB flash, 4kB SRAM, LQFP64 package
- LPC1225FBD48: 64kB flash, 8kB SRAM, LQFP48 package
- LPC1225FBD64: 80kB flash, 8kB SRAM, LQFP64 package
- LPC1226FBD48: 96kB flash, 8kB SRAM, LQFP48 package
- LPC1226FBD64: 96kB flash, 8kB SRAM, LQFP48 package
- LPC1227FBD48: 128kB flash, 8kB SRAM, LQFP48 package
- LPC1227FBD64: 128kB flash, 8kB SRAM, LQFP64 package
- LPC12D27FBD100: Robust and Reliable 32-bit Microcontroller (MCU) based on ARM Cortex-M0 Core

LPC1300 Series: Entry-level Microcontrollers (MCUs) based on ARM® Cortex®-M3 Cores

- LPC1311FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1313FBD48: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1313FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1315FBD48: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1315FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1316FBD48: 48kB Flash, 8kB SRAM
- LPC1316FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1317FBD48: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1317FBD64: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1317FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1342FBD48: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1342FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1343FBD48: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1343FHN33: 32kB Flash, 8kB SRAM, USB Device
- LPC1345FBD48: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1345FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1346FBD48: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1346FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1347FBD48: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1347FBD64: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1347FHN33: Entry-level 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core

LPC1500 Series: Motion Control Microcontrollers (MCUs) based on ARM® Cortex®-M3 Cores

- LPC1517JBD48: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1517JBD64: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1518JBD100: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1518JBD64: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1519JBD100: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1519JBD64: Motion Control 32-bit Microcontroller based on ARM Cortex-M3

- LPC1547JBD48: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1547JBD64: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1548JBD100: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1548JBD64: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1549JBD100: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1549JBD48: Motion Control 32-bit Microcontroller based on ARM Cortex-M3
- LPC1549JBD64: Motion Control 32-bit Microcontroller based on ARM Cortex-M3

LPC1700 Series: Scalable Mainstream Microcontrollers (MCUs) based on ARM® Cortex®-M3 Cores

- LPC1751FBD80: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1752FBD80: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1754FBD80: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1756FBD80: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1758FBD80: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1759FBD80: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1763FBD100: 256kB flash, 64kB SRAM, no CAN, LQFP100 package
- LPC1764FBD100: 128kB flash, 32kB SRAM, Ethernet, USB, LQFP100 package
- LPC1765FBD100: 256kB flash, 64kB SRAM, USB, LQFP100 package
- LPC1765FET100: 256kB flash, 64kB SRAM, USB, TFBGA100 package
- LPC1766FBD100: 256kB flash, 64kB SRAM, Ethernet, USB, LQFP100 package
- LPC1767FBD100: 512kB flash, 64kB SRAM, Ethernet, no CAN, LQFP100 package
- LPC1768FBD100: 512kB flash, 64kB SRAM, Ethernet, USB, LQFP100 package
- LPC1768FET100: 512kB flash, 64kB SRAM, Ethernet, USB, TFBGA100 package
- LPC1768UK: Scalable Mainstream 32-bit Microcontroller based on ARM Cortex-M3
- LPC1769FBD100: 512kB flash, 64kB SRAM, Ethernet, USB, LQFP100 package
- LPC1774FBD144: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1774FBD208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1776FBD208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1776FET180: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1777FBD208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1778FBD144: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1778FBD208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1778FET180: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1778FET208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1785FBD208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1786FBD208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1787FBD208: 512kB flash, 96kB SRAM, USB, LCD, LQFP208 package
- LPC1788FBD144: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1788FBD208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1788FET180: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1788FET208: Scalable Mainstream 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core

LPC1800 Series: High Performance Microcontrollers (MCUs) based on ARM® Cortex®-M3 Cores

- LPC1810FBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1810FET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1812JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1812JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1813JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1813JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1815JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1815JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1817JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1817JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1820FBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1820FET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1822JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1822JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1823JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1823JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1825JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1825JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1827JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1827JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3

- LPC1830FBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1830FET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1830FET180: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1830FET256: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1833FET256: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1833JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1833JET100: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1833JET256: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1837FET256: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1837JBD144: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1837JET100: High Performance 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1837JET256: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1850FET180: Quad SPI Flash Interface (SPIFI), 200 kB SRAM, two High-speed USB, Ethernet, LCD, TFBGA180 package
- LPC1850FET256: Quad SPI Flash Interface (SPIFI), 200 kB SRAM, two High-speed USB, Ethernet, LCD, LBGA256 package
- LPC1853FET256: High Performance 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1853JBD208: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1853JET256: High Performance 32-bit Microcontroller based on ARM Cortex-M3
- LPC1857FET256: 1 MB flash, 136 kB SRAM, two High-speed USB, Ethernet, LCD, LBGA256 package
- LPC1857JBD208: High Performance 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC1857JET256: High Performance 32-bit Microcontroller (MCU) based on ARM Cortex-M3 Core
- LPC18S10FBD144: 32-bit ARM Cortex-M3 flashless MCU with security features; 136 kB SRAM; EMC
- LPC18S10FET100: 32-bit ARM Cortex-M3 flashless MCU with security features; 136 kB SRAM; EMC
- LPC18S30FBD144: 32-bit ARM Cortex-M3 flashless MCU with security features; 200 kB SRAM; Ethernet, two HS USB, EMC
- LPC18S30FET100: 32-bit ARM Cortex-M3 flashless MCU with security features; 200 kB SRAM; Ethernet, two HS USB, EMC
- LPC18S30FET256: 32-bit ARM Cortex-M3 flashless MCU with security features; 200 kB SRAM; Ethernet, two HS USB, EMC
- LPC18S37JBD144: 32-bit ARM Cortex-M3 MCU; 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, EMC, AES engine
- LPC18S37JET100: 32-bit ARM Cortex-M3 MCU; 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, EMC, AES engine
- LPC18S50FET180: 32-bit ARM Cortex-M3 flashless MCU with security features; 200 kB SRAM; Ethernet, two HS USB, LCD, EMC
- LPC18S50FET256: 32-bit ARM Cortex-M3 flashless MCU with security features; 200 kB SRAM; Ethernet, two HS USB, LCD, EMC
- LPC18S57JBD208: 32-bit ARM Cortex-M3 MCU; 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC, AES engine
- LPC18S57JET256: 32-bit ARM Cortex-M3 MCU; 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC, AES engine

LPC4000 Series: Mid-range Microcontrollers (MCUs) based on ARM® Cortex®-M4 Cores

- LPC4072FBD80: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- LPC4072FET80: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- LPC4074FBD144: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- LPC4074FBD80: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- LPC4076FBD144: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- LPC4076FET180: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- LPC4078FBD100: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- LPC4078FBD144: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- LPC4078FBD208: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- LPC4078FBD80: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- LPC4078FET180: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- LPC4078FET208: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- LPC4088FBD144: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- LPC4088FBD208: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- LPC4088FET180: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- LPC4088FET208: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core

LPC4300 Series: High Performance Microcontrollers (MCUs) based on ARM® Cortex®-M4/M0 Cores

- LPC4310FBD144: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
- LPC4310FET100: Dual-core Cortex-M4/M0, 168 kB SRAM, CAN, AES, SPIFI, SGPIO, SCT
- LPC4312JBD144: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
- LPC4312JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
- LPC4313JBD144: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
- LPC4313JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
- LPC4315JBD144: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
- LPC4315JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
- LPC4317JBD144: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
- LPC4317JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
- LPC4320FBD144: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
- LPC4320FET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores

LPC4322JBD144: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; two High-speed USB, LCD, EMC
LPC4322JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4323JBD144: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4323JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4325JBD144: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; two High-speed USB, LCD, EMC
LPC4325JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4327JBD144: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; two High-speed USB, LCD, EMC
LPC4327JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4330FBD144: Dual-core Cortex-M4/M0, 264 kB SRAM, 2 HS USB with on-chip PHY, Ethernet, CAN, AES, SPIFI, SGPIO, SCT
LPC4330FET100: Dual-core Cortex-M4/M0, 264 kB SRAM, 2 HS USB with on-chip PHY, Ethernet, CAN, AES, SPIFI, SGPIO, SCT
LPC4330FET180: Dual-core Cortex-M4/M0, 264 kB SRAM, 2 HS USB with on-chip PHY, Ethernet, CAN, AES, SPIFI, SGPIO, SCT
LPC4330FET256: Dual-core Cortex-M4/M0, 264 kB SRAM, 2 HS USB with on-chip PHY, Ethernet, CAN, AES, SPIFI, SGPIO, SCT
LPC4333FET256: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4333JBD144: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4333JET100: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4333JET256: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
LPC4337FBD144: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4337FET180: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4337FET256: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
LPC4337JBD144: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
LPC4337JET100: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
LPC4337JET256: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
LPC4350FBD208: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4350FET180: Dual-core Cortex-M4/M0, 264 kB SRAM, 2 HS USB with on-chip PHY, Ethernet, LCD, CAN, AES, SPIFI, SGPIO, SCT
LPC4350FET256: Dual-core Cortex-M4/M0, 264 kB SRAM, 2 HS USB with on-chip PHY, Ethernet, LCD, CAN, AES, SPIFI, SGPIO, SCT
LPC4353FET180: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4353JBD208: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4353JET256: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
LPC4357FBD208: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4357FET256: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4357JBD208: 32-bit ARM Cortex-M4/M0 MCU; up to 1 MB flash and 136 kB SRAM; Ethernet, two High-speed USB, LCD, EMC
LPC4357JET256: High Performance 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4/M0 Cores
LPC4367JBD208: High Performance 32-bit Microcontroller based on ARM® Cortex®-M4/M0
LPC4367JET100: High Performance 32-bit Microcontroller based on ARM® Cortex®-M4/M0
LPC4367JET256: High Performance 32-bit Microcontroller based on ARM® Cortex®-M4/M0
LPC4370FET100: 32-bit ARM Cortex-M4 + 2 x M0 MCU; 282 kB SRAM; Ethernet; two HS USBs; 80 Msps 12-bit ADC; configurable peripherals
LPC4370FET256: 32-bit ARM Cortex-M4 + 2 x M0 MCU; 282 kB SRAM; Ethernet; two HS USBs; 80 Msps 12-bit ADC; configurable peripherals
LPC43S20FBD144: 32-bit ARM Cortex-M4/M0 flashless MCU with security features; 200 kB SRAM; USB
LPC43S20FET180: 32-bit ARM Cortex-M4/M0 flashless MCU with security features; 200 kB SRAM; USB
LPC43S30FBD144: 32-bit ARM Cortex-M4/M0 flashless MCU with security features; 264 kB SRAM; Ethernet; two HS USBs
LPC43S30FET100: 32-bit ARM Cortex-M4/M0 flashless MCU with security features; 264 kB SRAM; Ethernet; two HS USBs
LPC43S30FET256: 32-bit ARM Cortex-M4/M0 flashless MCU with security features; 264 kB SRAM; Ethernet; two HS USBs
LPC43S37JBD144: 32-bit ARM Cortex-M4/M0 MCU; 1 MB flash and 136 kB SRAM; Ethernet, 2 x USB, EMC, AES engine
LPC43S37JET100: 32-bit ARM Cortex-M4/M0 MCU; 1 MB flash and 136 kB SRAM; Ethernet, 2 x USB, EMC, AES engine
LPC43S50FET180: 32-bit ARM Cortex-M4/M0 flashless MCU with security features; 264 kB SRAM; Ethernet; two HS USBs; LCD
LPC43S50FET256: 32-bit ARM Cortex-M4/M0 flashless MCU with security features; 264 kB SRAM; Ethernet; two HS USBs; LCD
LPC43S57JBD208: 32-bit ARM Cortex-M4/M0 MCU; 1 MB flash and 136 kB SRAM; Ethernet, 2 x USB, LCD, EMC, AES engine
LPC43S57JET256: 32-bit ARM Cortex-M4/M0 MCU; 1 MB flash and 136 kB SRAM; Ethernet, 2 x USB, LCD, EMC, AES engine
LPC43S67JBD208: High Performance 32-bit Microcontroller based on ARM® Cortex®-M4/M0
LPC43S67JET100: High Performance 32-bit Microcontroller based on ARM® Cortex®-M4/M0
LPC43S67JET256: High Performance 32-bit Microcontroller based on ARM® Cortex®-M4/M0
LPC43S70FET100: 32-bit ARM Cortex-M4 + 2 x M0 MCU; 282 kB SRAM; Ethernet; two HS USBs; 80 Msps 12-bit ADC; configurable peripherals, AES eng
LPC43S70FET256: 32-bit ARM Cortex-M4 + 2 x M0 MCU; 282 kB SRAM; Ethernet; two HS USBs; 80 Msps 12-bit ADC; configurable peripherals, AES eng

LPC54000 Series: Low Power Microcontollers (MCUs) based on ARM® Cortex®-M4 Cores with optional Cortex®-M0+ co-processor

LPC54101J256BD64: Low Power 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4 Core
LPC54101J256UK49: Low Power 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4 Core
LPC54101J512BD64: Low Power 32-bit Microcontroller based on ARM® Cortex®-M4
LPC54101J512UK49: Low Power 32-bit Microcontroller based on ARM® Cortex®-M4
LPC54102J256BD64: Low Power 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4 Core
LPC54102J256UK49: Low Power 32-bit Microcontroller based on ARM® Cortex®-M4
LPC54102J512BD64: Low Power 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4 Core

- LPC54102J512UK49: Low Power 32-bit Microcontroller (MCU) based on ARM® Cortex®-M4 Core
- LPC800 Series: Low-Cost Microcontrollers (MCUs) based on ARM® Cortex®-M0+ Cores
  - LPC810M021FN8: Low Cost 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+ Core
  - LPC811M001FDH16: Low Cost 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+ Core
  - LPC811M001JDH16: Low Cost 32-bit Microcontroller based on ARM® Cortex®-M0+
  - LPC812M101FD20: Low Cost 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+ Core
  - LPC812M101FDH16: Low Cost 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+ Core
  - LPC812M101FDH20: Low Cost 32-bit Microcontroller (MCU) based on ARM® Cortex®-M0+ Core
  - LPC812M101JD20: 32-bit ARM Cortex-M0+ microcontroller; 16 kB flash and 4 kB SRAM
  - LPC812M101JDH16: Low Cost 32-bit Microcontroller based on ARM® Cortex®-M0+
  - LPC812M101JDH20: Low Cost 32-bit Microcontroller based on ARM® Cortex®-M0+
  - LPC812M101JTB16: Low Cost 32-bit Microcontroller based on ARM® Cortex®-M0+
  - LPC822M101JDH20: Low Cost 32-bit Microcontroller based on ARM® Cortex®-M0+
  - LPC822M101JHI33: Low Cost 32-bit Microcontroller based on ARM® Cortex®-M0+
  - LPC824M201JDH20: Low Cost 32-bit Microcontroller based on ARM® Cortex®-M0+
  - LPC824M201JHI33: Low Cost 32-bit Microcontroller based on ARM® Cortex®-M0+
- MAC7xxx Automotive Controllers
  - MAC7111: 32-bit Automotive Microcontrollers
  - MAC7112: 32-bit Automotive Microcontrollers
  - MAC7116: 32-bit Automotive Microcontrollers
  - MAC7121: 32-bit Automotive Microcontrollers
  - MAC7131: 32-bit Automotive Microcontrollers
  - MAC7136: 32-bit Automotive Microcontrollers
  - MAC7200: 32-bit Automotive Microcontrollers
- S32 ARM Processors & Microcontrollers
  - S32K: 32-bit Automotive General Purpose Microcontrollers
  - S32V230: S32V230 Family of Processors for Advanced Driver Assistance Systems

Power Architecture

- 5xx Controllers
  - MPC533: 32-bit Microcontrollers
  - MPC535: 32-bit Microcontrollers
  - MPC555: 32-bit Microcontrollers
  - MPC561: 32-bit Microcontrollers
  - MPC562: 32-bit Microcontrollers
  - MPC563: 32-bit Microcontrollers
  - MPC564: 32-bit Microcontrollers
  - MPC565: 32 Bit Microcontroller
  - MPC566: 32 Bit Microcontroller
- PowerQUICC® II (82xx)
  - MPC8247: PowerQUICC® II Processor with PCI, USB, Communications Processor Module
  - MPC8248: PowerQUICC® II Processor with PCI, USB, Security, Communications Processor Module
  - MPC8250: PowerQUICC® II Processor with PCI, 128-ch. HDLC, 10/100 Ethernet
  - MPC8255: PowerQUICC® II Processor with 128-ch. HDLC, UTOPIA II, 10/100 Ethernet
  - MPC8265: PowerQUICC® II Processor with PCI, 256-ch. HDLC, UTOPIA II, 10/100 Ethernet
  - MPC8270: PowerQUICC® II Processor with PCI, USB, 128-ch. HDLC, 10/100 Ethernet
  - MPC8272: PowerQUICC® II Processor with PCI, USB, Security, Communications Processor Module with UTOPIA
  - MPC8275: PowerQUICC® II Processor with PCI, USB, 128-ch. HDLC, UTOPIA II Ports, 10/100 Ethernet
- PowerQUICC® II Pro (83xx)
  - MPC8343E: PowerQUICC® II Pro Processor with DDR2, Dual PCI, 1 GB Ethernet, Dual USB, Security
- PowerQUICC® I (8xx)
  - MPC850: PowerQUICC® Processor with CPM (2 SCC, 2 SMC), 10T Ethernet
- PowerQUICC® III (85xx)
  - MPC8541E: PowerQUICC® III Processor with TDM, DDR, PCI, 1 GB Ethernet, Security, CPM with UTOPIA
  - MPC8543E: PowerQUICC® III Processor with DDR2, PCI, PCI Express®, Serial RapidIO, SerDes, 1 GB Ethernet, Security
  - MPC8545E: PowerQUICC® III Processor with DDR2, PCI, PCI Express®, SerDes, 1 GB Ethernet, Security
  - MPC8547E: PowerQUICC® III Processor with DDR2, PCI, PCI Express®, SerDes, 1 GB Ethernet, Security
  - MPC8548E: PowerQUICC® III Processor with DDR2, PCI, PCI Express®, Serial RapidIO, SerDes, 1 GB Ethernet, Security
  - MPC8555E: PowerQUICC® III Processor with TDM, DDR, PCI, 1 GB Ethernet, Security, CPM with UTOPIA
  - MPC8569E: PowerQUICC® III Processor with DDR2/3

Automotive Products

- Microcontrollers and Processors

16-bit S12 & S12X MCUs
- MC9S12H: S12H Automotive and Industrial Microcontrollers (MCUs)
- S12A: S12A Automotive and Industrial Microcontrollers (MCUs)
- S12B: S12B Automotive and Industrial Microcontrollers (MCUs)
- S12C: S12C Automotive and Industrial Microcontrollers (MCUs)
- S12D: S12D Automotive and Industrial Microcontrollers (MCUs)
- S12E: S12E Automotive and Industrial Microcontrollers (MCUs)
- S12G: Ultra-Reliable S12G General Purpose Automotive and Industrial Microcontrollers
- S12GC: S12GC Automotive and Industrial Microcontrollers (MCUs)
- S12HY: S12HY Scalable Value Line Cluster Solutions Microcontrollers (MCUs) with CAN
- S12HZ: S12HZ Scalable Instrument Cluster Solutions Microcontrollers (MCUs) with CAN
- S12K: S12K Automotive and Industrial Microcontrollers (MCUs)
- S12NE: Microcontroller
- S12P: S12P Automotive and Industrial Microcontrollers (MCUs)
- S12Q: S12Q Automotive and Industrial Microcontrollers (MCUs)
- S12XA: S12XA Automotive and Industrial Microcontrollers (MCUs)
- S12XB: S12XB Automotive and IndustrialMicrocontrollers (MCUs)
- S12XD: S12XD Automotive and Industrial Microcontrollers (MCUs)
- S12XE: Ultra-Reliable S12XE High-Performance Automotive and Industrial Microcontrollers
- S12XF: S12XF Automotive and Industrial Microcontrollers (MCUs)
- S12XHY: S12XHY Scalable Cluster Microcontrollers (MCUs) with CAN
- S12XHZ: S12XHZ Scalable Instrument Clusters Microcontrollers (MCUs) with CAN
- S12XS: S12XS Automotive and Industrial Microcontrollers (MCUs)

mobileGT® (51xx/52xx)
- MPC5121e: 32-bit Power Architecture® Microcontrollers
- MPC5125: 32-bit microprocessor
- MPC5200: 32-bit Microcontrollers
- MPC5200B: 32-bit MCU for Automotive, Consumer & Industrial Applications

MPC55xx MCUs
- MPC5510: NXP® 32-bit MCU for Body Electronics Applications
- MPC5534: 32-bit MCU for Low-End Automotive Powertrain Applications
- MPC5553: 32-bit MCU for Automotive Powertrain Applications
- MPC5554: 32-bit MCU for Powertrain Applications
- MPC5561: 32-bit MCU for Automotive ADAS Applications
- MPC5565: 32-bit MCU for Automotive Powertrain and Industrial Applications
- MPC5566: 32-bit MCU for Automotive Powertrain Applications
- MPC5567: 32-bit MCU for Auto Powertrain Applications

Ultra-Reliable MPC56xx 32-bit Automotive & Industrial Microcontrollers (MCUs)
- MPC560xB: Ultra-Reliable MPC56xB MCU for Automotive & Industrial General Purpose
- MPC560xE: Ultra-Reliable 32-bit MCU for Automotive ADAS and Industrial Ethernet Applications
- MPC560xP: Ultra-Reliable MPC560xP MCU for Automotive & Industrial Safety Applications
- MPC560xS: Ultra-Reliable MPC560xS MCU for Automotive & Industrial Instrument Clusters
- MPC563xM: Ultra-Reliable MPC563xM for Automotive & Industrial Engine Management
- MPC564xA: Ultra-Reliable MPC564xA MCU for Automotive & Industrial Engine Management
- MPC564xB-C: Ultra-Reliable MPC564xB-C MCU for Automotive & Industrial Control Applications
- MPC564xL: Ultra-Reliable Dual-Core 32-bit MCU for Automotive and Industrial Applications
- MPC564xS: Ultra-Reliable MPC56xS MCU for Automotive & Industrial Instrument Clusters
- MPC5668G: Ultra-Reliable MPC5668G MCU for Automotive & Industrial Gateway Applications
- MPC5674F: Ultra-Reliable MPC5674F MCU for Automotive & Industrial Engine Management
- MPC5676R: Ultra-Reliable MPC5676R MCU for Automotive & Industrial Engine Management
- MPC567xK: Ultra-Reliable MPC567xK MCU for Automotive & Industrial Radar Applications

Ultra-Reliable MPC57xx 32-bit Automotive & Industrial Microcontrollers (MCUs)
- MPC5746R: Automotive & Industrial Engine Management MCU
- MPC574xB-C-D-G: Ultra-Reliable MCUs for Automotive & Industrial Control and Gateway
- MPC574xP: Ultra-Reliable MPC574xP MCU for Automotive & Industrial Safety Applications
- MPC5777C: Ultra-Reliable MPC5777C MCU for Automotive & Industrial Engine Management
- MPC5777M: Ultra-Reliable MPC5777M MCU for Automotive & Industrial Engine Management
- MPC577xK: Ultra-Reliable MPC577xK MCU for Automotive ADAS & Industrial Radar Applications

8-bit S08 5.5V MCUs
- S08AC: 8-bit Flexis® AC128/96/60/48/32 MCUs
- S08AW: 8-bit General Purpose AW60/48/32/16 MCUs

- S08D: 8-bit Cost-Effective with CAN D MCUs
- S08EL-SL: 8-bit EEPROM with LIN S08EL and S08SL MCUs
- S08FL: 8-bit Cost-Effective FL16/8 MCUs
- S08JM: 8-bit USB Cost-Effective JM MCUs
- S08LG: 8-bit Segment LCD S08LG32 and S08LG16 MCUs
- S08MP: 8-bit General Purpose MP MCUs
- S08QD: 8-bit Small Package QD MCUs
- S08RN: 8-bit EEPROM with TSI for Body Electronics MCUs
- S08SC4: 8-bit C4 Small Package SC4 MCUs
- S08SE: 8-bit General Purpose SE MCUs
- S08SF: 8-bit Motor Control SF MCUs
- S08SG: 8-bit Small Package SG MCUs
- S08SH: 8-bit General Purpose SH MCUs
- S08SL: 8-bit EEPROM with LIN S08EL and S08SL MCUs
- S08SV: 8-bit General Purpose Best-in-Class performance SV MCUs

S12 MagniV® Mixed-Signal Microcontrollers (MCUs) for Automotive & Industrial

- S12VR: S12VR Mixed-Signal MCU for Automotive & Industrial Relay Based Motor Control
- S12ZVC: S12ZVC Mixed-Signal MCU for Automotive & Industrial CAN Applications
- S12ZVH: S12ZVH Mixed-Signal MCU for Entry-Level Automotive & Industrial Clusters
- S12ZVHY: S12 MagniV® Mixed-Signal MCU for Automotive Instrument Cluster Applications
- S12ZVL: S12ZVL Mixed-Signal MCU for Automotive & Industrial LIN Applications
- S12ZVM: S12ZVM Mixed-Signal MCU for Automotive & Industrial Motor Control Applications

Features

Ethernet, USB, and Serial communications interfaces
Very fast communications speeds
4.3" LCD Touch Screen
Power-switching relays to control target power
Production environment ready with voltage protection technology

Target Architectures

Cyclone FX for ARM devices (ACP-CYCLONE-FX)

- Kinetis®
- S32
- LPC

Cyclone Universal FX (U-CYCLONE-FX)

- Kinetis®
- S32
- LPC
- Qorivva® (MPC5xxx)
- S12Z
- ColdFire V2/V3/V4
- ColdFire+/V1
- HC(S)12(X)
- HCS08
- HC08
- RS08
- Power MPC5xx/8xx
- DSC
- ARM® Nexus (MAC7xxx)

Applications

Production Programming
Development/Prototyping
Testing
Field Maintenance

Cyclone FX Special Features

Extremely high speed (up to 25 Mb/s), intuitive, in-circuit flash programming
On-board storage: 1GB, no practical limit to # of programming images
Programming images support count and date restrictions
Can run test and calibration code on the target device as part of the programming process
Secure Digital High Capacity (SDHC) port for expanded memory
USB & Control expansion ports

Flash Programming Highlights

Huge library of programming algorithms for thousands of MCUs
Serialization and dynamic data
Capable of programming external flash
Multiple image support for programming of different images during production runs
PC-controlled and Stand-Alone programming for production lines