



# 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 \[pemicro.com/cyclone\]\(http://pemicro.com/cyclone\).](#)

## 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 Microcontrollers 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 Microcontrollers 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 Microcontrollers 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](#)  
[LPC11E37HFB64: 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, LBG256 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, LBG256 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 engine](#)

[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 engine](#)

**LPC54000 Series: Low Power Microcontrollers (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 Industrial Microcontrollers \(MCUs\)](#)  
[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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup>](#)  
[S32](#)  
[LPC](#)

Cyclone Universal FX (U-CYCLONE-FX)

[Kinetis<sup>®</sup>](#)  
[S32](#)  
[LPC](#)  
[Qorivva<sup>®</sup> \(MPC5xxx\)](#)  
[S12Z](#)  
[ColdFire V2/V3/V4](#)  
[ColdFire+/V1](#)  
[HC\(S\)12\(X\)](#)  
[HCS08](#)  
[HC08](#)  
[RS08](#)  
[Power MPC5xx/8xx](#)  
[DSC](#)  
[ARM<sup>®</sup> 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