

# LPC3180 Development Kit



**NXP**  
**LPC3180**

**Embedded Linux**  
**Development Kit**

The **LPC3180 Development Kit** provides a **stable platform** for building powerful user applications with the **NXP Semiconductors LPC3180** within the **ARM9 Linux environment**. The kit provides the user with an array of popular mobile technologies making it an ideal development target for consumer communications software. Using existing Linux hardware drivers, developers can focus on building and improving their user interface applications without worrying about low-level hardware functionality.

## Highlights

- Embedded Linux Development Environment
- Supports popular mobile technologies:
  - ◆ 802.11b/g WiFi
  - ◆ Bluetooth
  - ◆ Audio Codec
  - ◆ SD Card Slot
  - ◆ USB 2.0 OTG
- Boards come preloaded with:
  - ◆ Linux Kernel
  - ◆ Hardware Drivers
- Kit includes everything you need to get started:
  - ◆ LPC3180 Board
  - ◆ LCD and Keypad Board
  - ◆ Operating System Images
  - ◆ User's Manual
  - ◆ Power Supply
  - ◆ RS-232 Debug Cable

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# Specifications

- NXP LPC3180 - 208 MHz ARM926EJ-S Microprocessor with 32 KB cache
  - ◆ On chip NAND Flash & SDRAM interface
  - ◆ 7 UARTs, 2 I2C, 2 SPI interfaces
  - ◆ 10-bit ADC with 3 input mux
  - ◆ RTC and PLL for low frequency crystal
  - ◆ Up to 55 General Purpose I/O pins
- 64 MB SDRAM Memory (Samsung K4M56163PG)
- 128 MB NAND Flash Memory (Samsung K9F1G08R0A)
- Wireless LAN 802.11b/g (NXP BGW211)
- Bluetooth 1.2 (NXP BGB203)
- Power Management (NXP PCF50606 & PCF50685)
- Audio Codec (STMicroelectronics STw5095)
- JTAG ports (CPU, WiFi, and Bluetooth)
- Low Power USB 2.0 OTG Port
- DB9 RS-232 Serial Port for Debug
- Optional 10Base-T Ethernet Module with on-board RJ45 connector
- SD Card Slot
- LCD and Keypad expansion board
  - ◆ 128x160 graphical LCD, 65K Colors Densitron DVC40406
  - ◆ 27 key smart phone style keypad
- Device comes preloaded with:
  - ◆ ARM Linux 2.6.10
  - ◆ WiFi driver
  - ◆ Audio Codec driver
  - ◆ Bluetooth driver
  - ◆ Framebuffer driver
  - ◆ Keypad driver
- Interface with Linux via DB9 Serial Port and HyperTerminal Connection
  - ◆ Run Apache Web Server
  - ◆ Transfer files via NFS, Samba, or ftp
  - ◆ Mount NAND Flash device for non-volatile filesystem
- User's Manual and Operating System Images included
  - ◆ Use quick start guide to boot and begin development in minutes
  - ◆ Modify existing images to suit your custom configuration

# Ordering Information

Part Number: LPC3180-DEV-KIT

Order Online Now at:

[www.digikey.com](http://www.digikey.com)

Support Information:

(256) 883-1241 FAX

[www.teamfdi.com](http://www.teamfdi.com)



Kit Contents

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