



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

Support Information:

(256) 883-1241 FAX

www.teamfdi.com



Kit Contents

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