ARM 5.7" Touch Screen LCD Kit
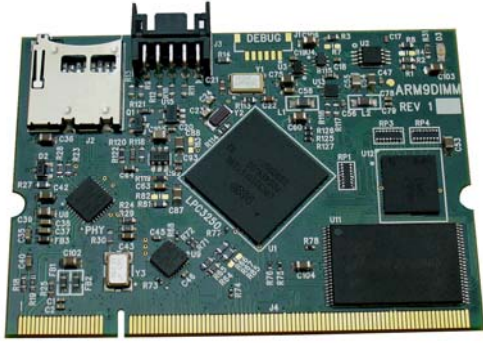
ARM-57TS-LPC3250
For the NXP LPC3250

Highlights

- **ARM9DIMM – CPU Module based on SODIMM form factor (Dual Inline Memory Module)**
  - **LPC3250 266MHz ARM926EJ-S microcontroller**
  - **256KB of Internal SRAM, 256MB NAND FLASH, 32MB of External SDRAM**
  - **10/100 Ethernet PHY**
  - **Micro SD Memory Socket**
  - **Mini-JTAG Debug Connector**

- **ARMCARRIER – Generic Carrier Board for ARM CPU and LCD Modules**
  - **200-pin ARMDIMM Socket, supporting ARM7, ARM9, & Cortex-M3 Modules**
  - **10/100 Ethernet Port, USB Host and Device ports**
  - **One RS-232 port (Male DB9), External I2C interface**
  - **3-axis Digital Accelerometer & Temperature Sensor**
  - **Real-time Clock with SuperCap backup**
  - **TFT interface for Graphics LCD displays up to 1024x768 resolution, 18-bit color**
  - **Flexible Power Supply input can be wall supply or 5V USB**

- **LCDCARRIER**
  - **5.7" QVGA Display with Touch Screen Interface**
  - **Optional 3.5" QVGA board, up to 10.4" XGA Board**

- **Software Included**
  - **Linux Operating System**
  - **VMWare Development Virtual Machine Image**
  - **Linux Driver support: LCD frame buffer, Touch screen, NAND-Flash, SDRAM, MMC, USB, I2C, SPI, DMA, Ethernet, RS232, and RTC.**

- **Supplied with easy-to-use application documents for all hardware and software**
- **Platform is based on a modular design for maximum flexibility**
- **Additional CPU DIMM and LCD Carrier boards under development**

The ARM-57TS-LPC3250 is optimized to save development time in typical embedded control applications. The modular format uses a base Carrier Board, a core CPU DIMM Module and an LCD Carrier Board. The base Carrier Board includes expansion connectors for added flexibility and a range of configurations. FDI offers low cost customization services for customer specific hardware, software or packaging applications at volumes of 500 units or more.

Features

Actual PCB dimensions are 2.66" x 1.89"

ARM9DIMM-LPC3250 Module Description

The ARM9DIMM-LPC3250 System On Chip Module includes an NXP ARM9EJ-S LPC3250 microcontroller running the open source Linux software platform. The LPC3250 has 256KB of internal SRAM memory, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, seven UARTs, and a collection of serial communications interfaces. The ARM9DIMM-LPC3250 Module also includes 32MB of external SDRAM and 256MB of external NAND FLASH.

Software Included

Linux Board Support Package

- Linux Operating System
- Bootloader (both primary boot loader and u-boot bootloader)
- VMWare Development Virtual Machine Image
- Linux Drivers support: LCD frame buffer, Touch Screen, NAND-Flash, SDRAM, MMC, USB, I2C, SPI, DMA, Ethernet, RS232, and RTC.

Ordering Information

Part Number: ARM-57TS-LPC3250
Suggested Resale Price: $480.00(USD)
Order Online at: www.mouser.com

Warranty: 30-day money back guarantee
NXP Part Number: OM11078
Phone 256-883-1240   Fax 256-883-1241
sales@teamfdi.com   www.teamfdi.com

Kit Contents:

- ARM9DIMM-LPC3250 Board
- ARMCARRIER Board
- LCDCARRIER Board & 5.7" QVGA LCD Touch Screen
- 5VDC, 2.3A North American Power Supply
- USB and Ethernet Cables
- Segger JTAG Debugger with cables

Software and Users Manual Included

FDI Future Designs, Inc.
Your Development Partner

Mouser Electronics

Authorized Distributor

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