ARM 5.7” Touch Screen LCD Kit

ARM-57TS-LPC2478

For the NXP LPC2478

Highlights

- **ARM7DIMM – CPU Module based on SODIMM form factor (Dual Inline Memory Module)**
  - **LPC2478 72MHz ARM7TDMI-S microcontroller**
  - **512KB of Internal FLASH, 96KB of Internal SRAM, 8MB of External SDRAM**
  - **10/100 Ethernet PHY**
  - **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 CAN port (Male DB9), 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**
  - **FreeRTOS Operating System**
  - **uEZ™ Rapid Development Platform**
  - **Complete COM Drivers and APIs with documentation**

- **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-LPC2478 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"

ARM7DIMM-LPC2478 Module Description

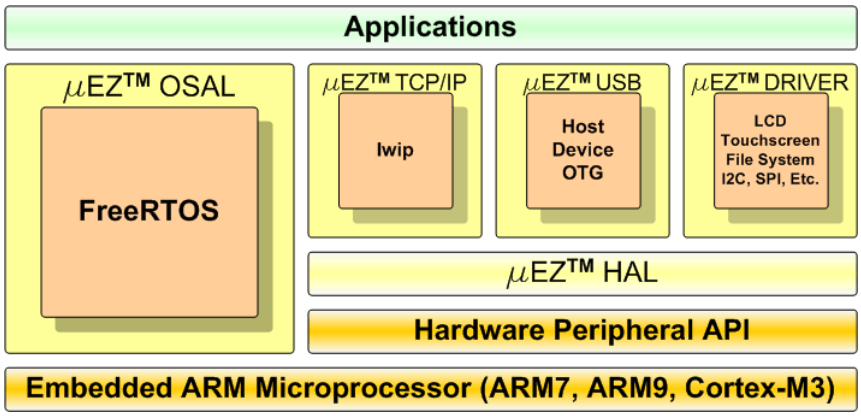
The ARM7DIMM-LPC2478 Module includes an NXP ARM7TDMI-S LPC2478 microcontroller running the open source uEZ™ +FreeRTOS software platform. The LPC2478 has 512KB of internal Flash memory, 96KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, four UARTs, two CAN channels and a collection of serial communications interfaces. The ARM7DIMM-LPC2478 Module also includes 8MB of external SDRAM.

Software Included

µEZ™ (pronounced Muse) is an open source rapid development platform that supplies application developers with an extensive library of open source software, drivers, and processor support - all under a common framework. EZ™ allows companies to focus on innovation and their value-added applications while minimizing development time and maximizing software reuse.

The diagram below shows a typical embedded application stack. The µEZ™ components comprise three primary categories to simplify embedded application development:

- Operating System Abstraction Layer (µEZ™ OSAL)
- Sub-system drivers (ex: µEZ™ TCP/IP, µEZ™ USB, µEZ™ Driver)
- Hardware Abstraction Layer (µEZ™ HAL)



Ordering Information

Part Number: ARM-57TS-LPC2478
Suggested Resale Price: $425.00(USD)
Order Online at: www.digikey.com

Warranty: 30-day money back guarantee
NXP Part Number: OM11076
Phone 256-883-1240 Fax 256-883-1241
sales@teamfdi.com www.teamfdi.com

Kit Contents:

- ARM7DIMM-LPC2478 Board
- ARMCARRIER Board
- LCDCARRIER Board & 5.7" QVGA LCD Touch Screen
- 5VDC, 2.3A North American Power Supply
- USB and Ethernet Cables
- Seggar JTAG Debugger with cables

uEZ™ Software and Users Manual Included

FDI Future Designs, Inc.
Your Development Partner