3.5" QVGA Touch Screen LCD Kit



DK-35TS-LPC2478
For the NXP LPC2478



Highlights

- SOMDIMM CPU Module based on SODIMM form factor (Dual Inline Memory Module)
 - o LPC2478 72MHz ARM7TDMI-S based microcontroller
 - o 512KB of Internal FLASH, 96KB of Internal SRAM, 8MB of External SDRAM
 - o 10/100 Ethernet PHY
 - o Mini-JTAG Debug Connector
- CARRIER Generic Carrier Board for CPU and LCD Modules
 - o 200-pin SOMDIMM Socket, supporting various processor modules
 - o 10/100 Ethernet Port, USB Host and Device ports
 - One CAN port (Male DB9), One RS-232 port (Male DB9), External I2C interface
 - o 3-axis Digital Accelerometer & Temperature Sensor
 - Real-time Clock with SuperCap backup
 - o TFT interface for Graphics LCD displays up to 1024x768 resolution, 18-bit color
 - o Flexible Power Supply input can be wall supply or 5V USB

LCDCARRIER

- o 3.5" QVGA Display (320 x 240) with Touch Screen Interface
- o Optional 5.7" QVGA or VGA board, up to 10.4" XGA Board
- Software Included
 - FreeRTOS Operating System
 - o uEZTM Rapid Development Platform
 - o 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 DK-35TS-LPC2478 is optimized to save development time in typical embedded control applications. The modular format uses a base Carrier Board, a core CPU SOMDIMM 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"

SOMDIMM-LPC2478 Description

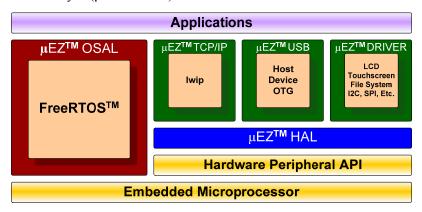
The SOMDIMM-LPC2478 includes an NXP LPC2478 ARM7TDMI-S based microcontroller running the open source uEZTM +FreeRTOS software platform. The LPC2478 has 512KB of internal Flash memory, 96KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller,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

Software Included

 μEZ^{TM} (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. μEZ^{TM} 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^{TM} components comprise three primary categories to simplify embedded application development:

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



Ordering Information

Part Number: DK-35TS-LPC2478 NXP Part Number: OM11xxx

Suggested Resale Price: \$375.00(USD)
Order Online at: www.mouser.com

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

Kit Contents:

- SOMDIMM-LPC2478 Board
- CARRIER Board
- LCDCARRIER Board & 3.5" QVGA LCD Touch Screen
- 5VDC, 2.3A North American Power Supply
- USB and Ethernet Cables
- Segger JTAG Debugger with cables

Download Users Manual, documents, schematics, and software examples at:

www.teamfdi.com/SOMDIMM-LPC2478



Rev 1.2 12/2/2009

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