SOMDIMM-LPC2478

Modular LPC2478 based Microprocessor Plug-In System On Module

The SOMDIMM-LPC2478 provides a quick and easy solution for implementing an ARM7TDMI-S based design by providing the basic functions necessary for a product on an easy to use SOMDIMM. The SOMDIMM uses an industry standard 200 pin SO-DIMM interface. These sockets are utilized by virtually every laptop on the market.
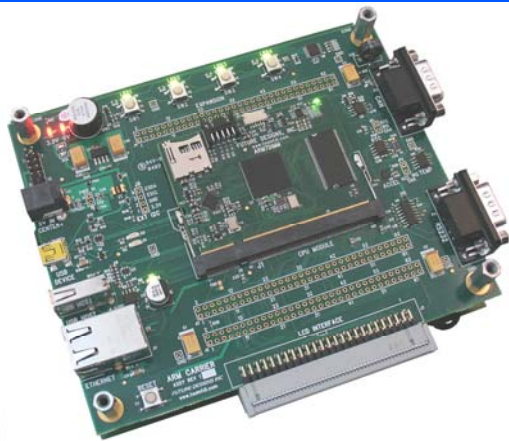
This SOMDIMM is compatible with FDI's Family of Touch Screen LCD Kits but can also be used for custom platform development or customer applications.

The SOMDIMM-LPC2478 includes an NXP LPC2478 ARM7TDMI-S based 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 SOMDIMM-LPC2478 also includes 8MB of external SDRAM.

Highlights

- **SOMDIMM – CPU Module**
    - **Based on SODIMM form factor (Dual Inline Memory Module)**
    - **LPC2478 72MHz ARM7TDMI-S based microcontroller**
    - **512KB of Internal FLASH, 96KB of Internal SRAM**
    - **8MB of External SDRAM (16 and 32MB optional)**
    - **1KB of External Secure EEPROM**
    - **10/100 Ethernet PHY**
    - **Mini-JTAG and micro SDCard connectors**
    - **PCB Dimensions 2.66" x 1.89"**

- **Software Included**
    - **FreeRTOS Operating System**
    - **uEZ^{TM} Rapid Development Platform**
    - **Complete COM Drivers and APIs with documentation**

- **Includes on-line application documents for all hardware and software**
- **Platform is based on a modular design for maximum flexibility**
- **Distribution stocking with volume discounts available**
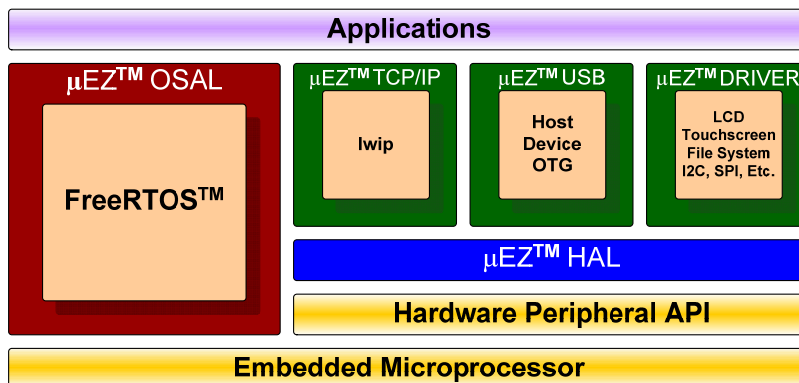
DK-TS-KIT Description

The DK-57TS-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.

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. µEZ™ 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)

Part Number: SOMDIMM-LPC2478
NXP Part Number: OM11077
Suggested Resale Price: $74.50 (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

   - uEZ™ Software pre-loaded on units purchased individually but not on OEM units

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

   www.teamfdi.com/SOMDIMM-LPC2478

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