Instant GUI 4.3" Touch Screen LCD Kit









0.545" thick



Highlights

Features

- Sharp 4.3" TFT WQVGA Touch Screen LCD 480 x 272
- NXP LPC1788 CPU with 512KB internal Flash
- USB Device Mini-B for power and PC communications
- 8MB of SDRAM
- 8MB of NOR FLASH (opt to 16MB)
- 2GB microSD Memory Card
- NV Data Storage via 2kB Internal EEPROM
- Internal Real-Time Clock with Supercap Backup
- Speaker, 3-axis Accelerometer, Temperature Sensor
- Mini-JTAG Debug Connector
- Actual Size 4.6" x 2.84" x 0.54"
- External Expansion via two I/O Connectors for
 - > Serial Ports, UART, I2C, SPI, USB Host/Device
 - ➤ RMII interface for Ethernet 10/100

Software

- uEZ® / FreeRTOS Rapid Development Platform
- MicroSD card maps as USB Flash Drive to the PC
- Rowley CrossWorks Compiler and Tool Suite
- Segger J-Link Lite JTAG for programming and debug





Rowley Associates







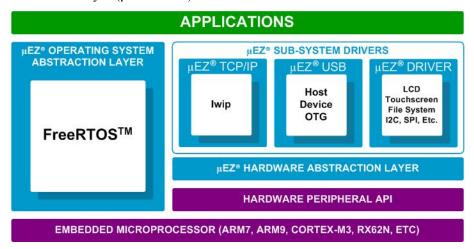
The NXP LPC1788 Cortex M-3 based microcontroller runs the open source uEZ[®] + FreeRTOS software platform. The LPC1788 has 512KB of internal Flash memory, 96KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, four UARTs, two CAN channels and a collection of serial communications interfaces. The uEZ GUI board also includes 8MB of external SDRAM and 8MB of external NOR Flash.

Software Included

μΕΖ[®] (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^{\otimes} 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 ($\mu EZ^{\mathbb{R}}$ OSAL) Sub-system drivers (ex: $\mu EZ^{\mathbb{R}}$ TCP/IP, $\mu EZ^{\mathbb{R}}$ USB, $\mu EZ^{\mathbb{R}}$ Driver)
- Hardware Abstraction Layer (μEZ[®] HAL)



The uEZGUI-1788-43WQS is designed to be used as an "off-the-shelf" Graphical User Interface (GUI) or Human Machine Interface (HMI) in a variety of end customer applications. The miniature, self-contained design is well suited to embed directly into your product or FDI offers prepackaged versions for stand-alone use (for example, the uEZGUI-1788-43WQS-BA is available for < \$150.00 in volume). FDI also offers low cost customization services for customer specific hardware, software or packaging applications at volumes of 500 units or more.

Ordering Information

Part Number: uEZGUI-1788-43WQS **NXP Part Number: OMxxxx**

Order Online at: www.teamfdi.com/uezgui

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

Kit Contents:

- uEZ® GUI 4.3" Board with LPC1788
- Sharp 4.3" WQVGA Touch Screen LCD
- USB Device cable for Power and PC communications
- Mini JTAG Debugger with cables

Download Users Manual, documents, schematics, and software examples at: www.teamfdi.com/uEZGUI

