Instant GUI 4.3" Touch Screen LCD Kit

uEZGUI-1788-43WQR
for the NXP LPC1788

0.512" thick

Highlights

Features

- Sharp 4.3" TFT WQVGA Touch Screen LCD 480 x 272
- NXP LPC1788 CPU with 512KB internal Flash
- USB Device Mini-AB for power and PC communications
- 8MB of SDRAM (optional to 32MB)
- 8MB of NOR FLASH (optional 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 0.51"
- USB Host support through adapter cable
- 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
- uEZ® / SafeRTOS option for Medical/Safety Apps
- 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
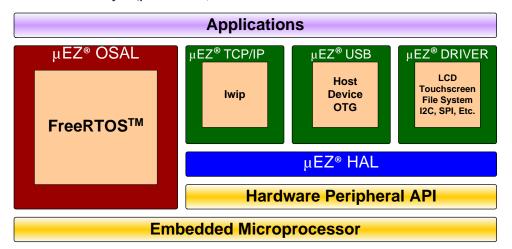- Customized versions available

Features

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

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)

Applications			
µEZ® OSAL	**µEZ® TCP/IP**	**µEZ® USB**	**µEZ® DRIVER**
FreeRTOS™	lwip	Host Device OTG	LCD Touchscreen File System I2C, SPI, Etc.
	µEZ® HAL		
	Hardware Peripheral API		
Embedded Microprocessor			

The **uEZGUI-1788-43WQR** 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-1788-43WQR-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-1788-43WQR
Suggested Resale Price: $299.00(USD)
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
- USB Host Adapter cable

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

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