

Instant GUI 4.3" Touch Screen LCD Kit



uEZGUI-1788-43WQS
for the **NXP LPC1788**



SHARP
MICROELECTRONICS
OF THE AMERICAS

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



FDI *Future Designs, Inc.*
Your Development Partner

Features



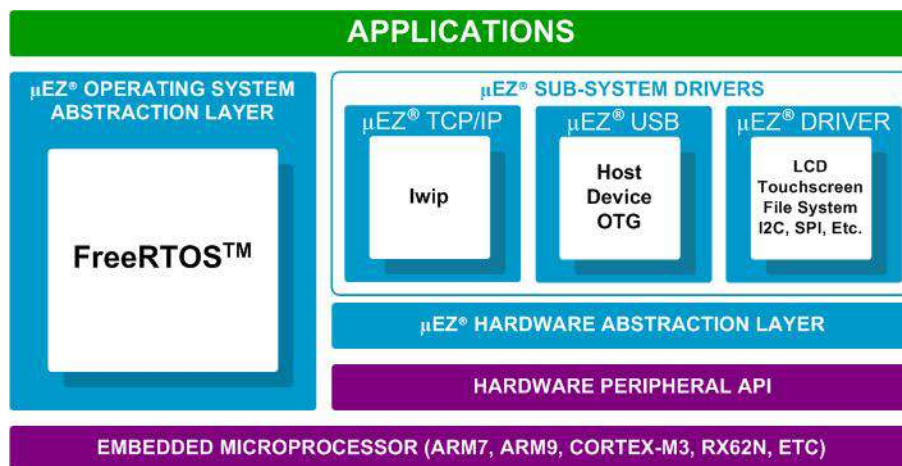
The NXP LPC1788 Cortex M-3 based microcontroller runs the open source μ EZ[®] + FreeRTOS software platform. The LPC1788 has 512KB of internal Flash memory, 96KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, four UARTs, two CAN channels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

Software Included

μ EZ[®] (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. μ 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 μ EZ[®] components comprise three primary categories to simplify embedded application development:

- Operating System Abstraction Layer (μ EZ[®] OSAL)
- Sub-system drivers (ex: μ EZ[®] TCP/IP, μ EZ[®] USB, μ EZ[®] Driver)
- Hardware Abstraction Layer (μ EZ[®] HAL)



The **μ EZGUI-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 **μ EZGUI-1788-43WQS-BA** 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: **μ EZGUI-1788-43WQS**
Order Online at: www.digikey.com

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

Kit Contents:

- μ EZ[®] 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/ \$\mu\$ EZGUI](http://www.teamfdi.com/μEZGUI)