

Instant GUI 4.3" Touch Screen LCD Kit



uEZGUI-2478-43WQS
for the **NXP LPC2478**



SHARP
MICROELECTRONICS
OF THE AMERICAS

0.545"
thick



Highlights

Features

- Sharp 4.3" TFT WQVGA Touch Screen LCD 480 x 272
- NXP LPC2478 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 I2C EEPROM
- 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



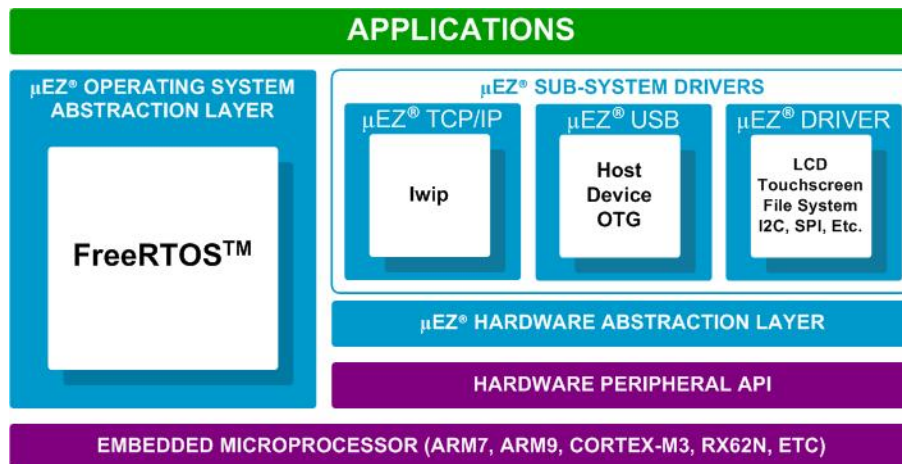
The NXP LPC2478 ARM7TDMI-S based microcontroller runs the open source μ EZ[®] + FreeRTOS software platform. The LPC2478 has 512KB of internal Flash memory, 96KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, four UARTs, two CAN channels and a collection of serial communications interfaces. The 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 **uEZGUI-2478-43WQS** 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-2478-43WQS-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-2478-43WQS**
NXP Part Number: **OMxxxx**
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 LPC2478**
- **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