uEZGUI-2478-43WQS

Instant GUI Touch Screen LCD Kit

uEZ™ GUI LPC2478 Features

- NXP LPC2478 Microcontroller
- 8MB External SDRAM
- 8MB External NOR Flash
- microSD Memory Card
- USB Device Port for power & comm
- Real Time Clock with SuperCap backup
- 3-axis Accelerometer, Temp Sensor
- Mini JTAG Connector
- 4.3" WQVGA TFT LCD from Sharp
- 4-Wire Resistive Touch Screen







uEZ™ GUI Kit Overview

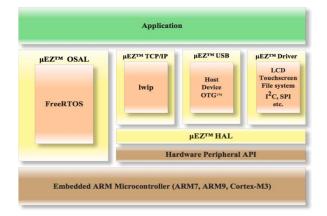
- Developed by Future Designs, Inc.
- uEZ™ Rapid Development Platform
- FreeRTOS Real Time Operating System
- IDE environment: Rowley Associates
 - CrossWorks Version 2.0
 - 30 Day Free Trial Period (Full Tool Chain)
- Segger J-Link Lite JTAG Debugger
- Middleware Components:
 - Ethernet: IwIP
 - USB Host: NXP Host Stack







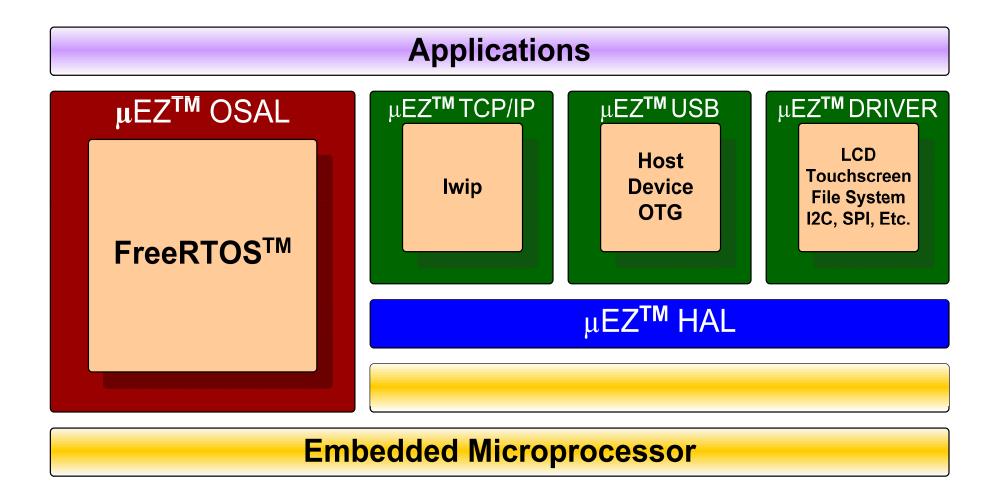








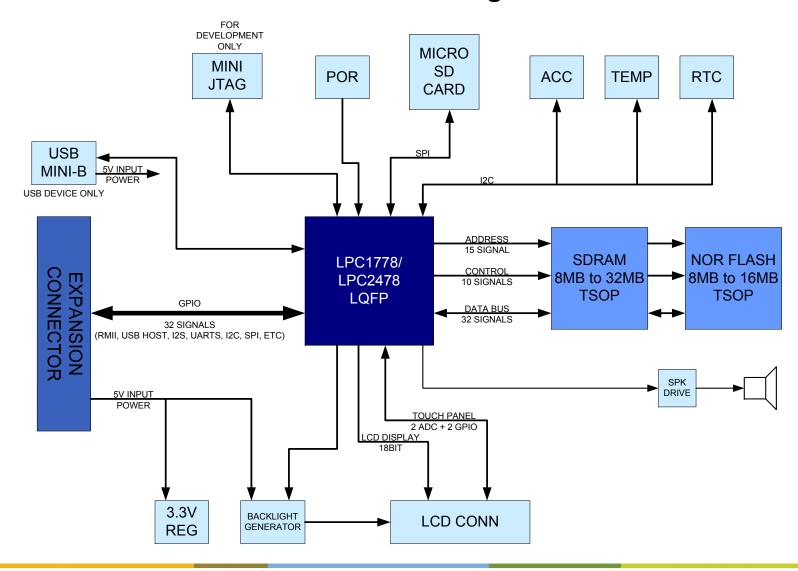
What is µEZ™







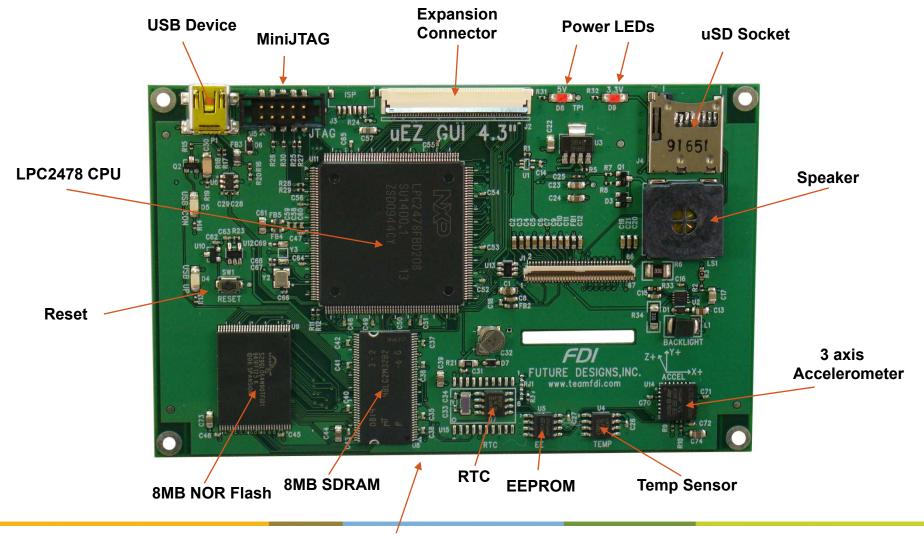
uEZ™ GUI Block Diagram





uEZ™ GUI

LPC2478 PCB Assembly Overview







uEZ™ GUI Assembly

4.3" Sharp LQ043T3DG01 LCD with Touch Screen

4.3" Sharp WQVGA TFT LCD with 4 wire Resistive Touch Screen









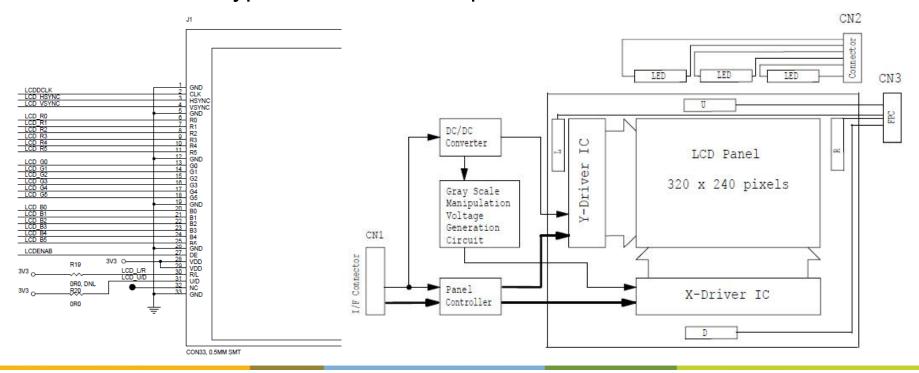


WQVGA TFT LCD

Sharp 4.3" LQ043T3DG01



- Wide Viewing Angle, 140deg Vertical, 160deg Horizontal
- 480 NIT Brightness, LED Backlight
- 480 x 272 resolution
- 4-wire resistive type touch screen implemented w/uC resources

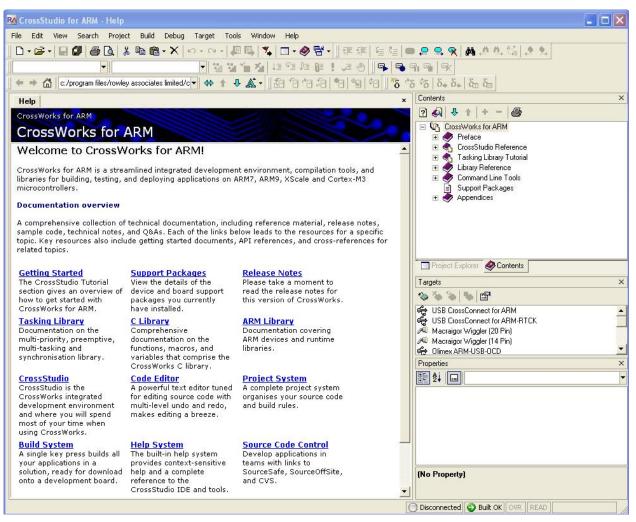






uEZ GUI Development Environment

Rowley Associates CrossWorks IDE



- CrossWorks for ARM
 - Version 2.0
 - C,C++, Assembler code development supported
 - GNU based compiler
- 30 Day full featured trail (Free) licenses available
- Commercial license price: \$1,500.00
- Works with multiple JTAG adapters





Third Party Support

For more advanced Graphics Requirements

Swell Software: PEG+ www.swellsoftware.com



Altia: PhotoProto www.altia.com



Segger: emWIN www.segger.com





uEZ™ GUI

Kit Contents

- uEZ™GUI PCB Assembly
- Sharp 4.3" TFT WQVGA LCD
- Stylus for touch Screen
- USB Cable
- Documentation on microSD Card
- Quick Start Guide
- Graphical User Interface demos
- Segger J-Link Lite Debugger







P/N uEZGUI-2478-43WQS Resale Price \$299.00





uEZ™ GUI with Expansion Board

- Expansion Board
 - Compatible with all uEZ GUI Kits
 - Ethernet, USB Host, RS232/RS485 and AC Power options
 - DALI and DMX Lighting Demos?









uEZ™ GUI in OEM Enclosure

- Custom Enclosure for OEM Applications
 - Volume pricing and OEM customization options available
 - Front label can be branded for volume customers









uEZ™ GUI with Larger LCD & OS options

- uEZ™ GUI with 7.0" WVGA LCD
 - LPC3250 Linux or WinCE based GUI Development Kit
 - Downloadable User Images and Customizable Menus
 - Rich set of I/O and Communication options



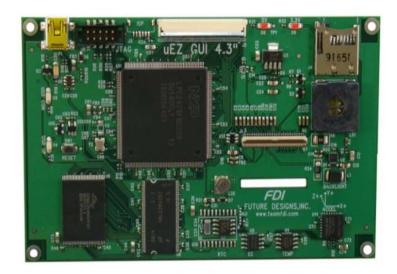






uEZ™ GUI for Other Microcontrollers

- NXP LPC1788 based uEZ™ GUI Kit
 - 100MHz Cortex-M3 based
 - 4.7" WQVA LCD targeted, but larger LCD's are possible
- ▶ Renesas RX based Direct Drive uEZ™ GUI Kit
 - Up to 200MHz 32-bit Family with 1.65 MIPS/MHz and low power
- ▶ Cypress PSoC5 based uEZ™ GUI Kit
 - 80MHz Cortex-M3 with Programmable Analog & Digital Blocks







Useful Links

FDI Home Page
http://www.teamfdi.com/

FreeRTOS Home Page http://www.freertos.org/

▶ uEZ™ Home Page on Source-Forge http://www.sourceforge.net/projects/uez

NXP Standard IC MCU Home Page
 http://www.standardics.nxp.com/microcontrollers/

Rowley Associates Home Page http://www.rowley.co.uk/



