

FDI

4.3" Capacitive Touch Screen LCD GUI



The uEZ GUI® unit is everything you need right out of the box to have a touch screen GUI instantly in your project.

Each uEZ GUI unit is available in two convenient forms. To get your project started quickly we offer a full development kit complete with JTAG debugger, power supply, cables, a microSD card and full documentation. The Dev Kit Part Number is **uEZGUI-4088-43WQN**. Once your design is complete, we also offer a cost-effective production module for prototypes or even for high volume production. The module includes the touchscreen display, all of the necessary hardware, and is supported by the uEZ® / FreeRTOS™ open source software. The uEZ GUI module is available off-the-shelf from any of our franchised distributors under Part Number **uEZGUI-4088-43WQN-BA**.



Module <\$175 in volume!

Features

- 4.3" TFT WQGA 480 x 272 LCD Panel with Projected Capacitive Touch Screen
- NXP LPC4088 120MHz CPU with 512KB internal Flash
- 16MB SPIFI Serial Flash
- 8MB of SDRAM (optional to 32MB)
- High Speed SD interface supporting 15fps video playback
- 4GB microSD Memory Card
- USB Device Mini-AB for 5.0VDC power and PC communications
- USB Host support through adapter cable
- NV Data Storage via 4KB Internal EEPROM
- Internal Real-Time Clock with Supercap Backup
- Speaker, 3-axis Accelerometer, Temperature Sensor
- PMOD Type 2A connector with SPI and optional I2C
- Mini-JTAG Debug Connector
- External Expansion via two I/O Connectors (70 pins)
 - UART, I2C, SPI, USB Host/Device, RMII Ethernet



Rowley Associates



www.teamfdi.com
(256) 883-1240



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[Youtube.com/
FDIProducts](http://Youtube.com/FDIProducts)



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Module Specifications

• Module P/N: **uEZGUI-4088-43WQN-BA**

- Contrast Ratio: 500 typical
- Luminance: 340 cd/m² typical
- Viewing Angle Horizontal: 70° L / 70° R
- Viewing Angle Vertical: 70° U / 50° D
- Power consumption typ/max: 350/500mA @ 5.0VDC
- Operating Temperature Range: -20°C to +70°C

- Overall Size: 4.60" W x 2.84" H x 0.56" T
- Viewable area: 3.74" W x 2.12" H
- Weight: 103g
- Touch Resolution: 480x272
- Number Simultaneous Touches: 1
- Glass Overlay: 0.7mm
- Glass Hardness: 6H

The **uEZGUI-4088-43WQN-BA** is the stand alone System On Module version and is priced at less than \$175.00 in volume. This unit 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. FDI also offers low cost customization services for customer specific hardware, software or packaging applications at volumes of 500 units or more.

Software

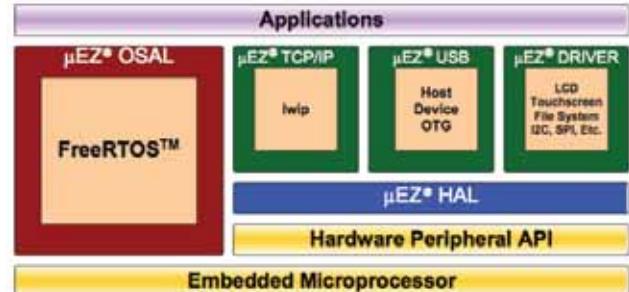
μEZ® (pronounced Muse) is an open source rapid development platform that supplies application developers with an extensive library of open source software, drivers, and processor support - all under a common framework. **μEZ®** allows companies to focus on innovation and their value-added applications while minimizing development time and maximizing software reuse.

The diagram to the right 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**)

Software Included:

- **μEZ®** / FreeRTOS Rapid Development Platform
- **μEZ®** / 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



Kit Contents

Kit Contents:

- **uEZGUI-4088-43WQN-BA** Production Module
- USB Device cables for Power and PC communications
- AC Power Supply
- Mini JTAG Debugger with cables
- Micro SD Card



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



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