

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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FDI

4.3" PCAP Touch Screen LCD GUI

The 4.3" PCAP Touch Screen LCD GUI **UEZGUI-4088-43WQN-BA**, adds enhanced processing capabilities to FDI's standalone microcontroller-based μ EZ® GUI product family. Featuring the high performance NXP LPC4088 microcontroller with Floating Point Unit and high speed SPIFI Flash, this product is optimal for math intensive applications including graphics processing at high speeds.

The Future Designs, Inc. μEZ° GUI product family is our standalone microcontroller-based solution designed for the easy integration of modern human machine interfaces (HMI) into a variety of end applications. Each μEZ GUI product includes a display with supporting hardware and FDI's open source μEZ / FreeRTOS software. FDI's μEZ GUI development kits include everything needed to kick off a μEZ GUI project including JTAG debugger, power supply, cables, microSD card and full documentation. Once your design is complete, we offer cost-effective production modules for prototypes or high-volume production.

FDI also offers engineering design and production support services. We are committed to saving our customers time, money and hassle. So, no matter how much (or little) support you need along the way, we can make your project concept a reality.

 μ EZ GUI Products are available for immediate order at www.TeamFDI.com or from any of our franchised distributors.

Module Features

- 4.3"TFT WQVGA 480 x 272 PCAP Touch Screen LCD Panel
- NXP LPC4088 120MHz CPU with 512KB internal Flash
- 16MB of SPIFI Serial Flash (optional to 64MB)
- 8MB of SDRAM (optional to 32MB)
- High Speed SD interface supporting 15fps video playback
- MicroSD Memory Card Socket
- USB Device Mini-AB for 5.0 VDC 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













Development Kit Part #: uEZGUI-4088-43WQN
Development Kit MSRP (Qty 1): \$319.00 (USD)
Production Module Part #: uEZGUI-4088-43WQN-BA
Production Module MSRP (Volume) <\$175.00 (USD)

Production guaranteed until 2024 or longer.











4.3" PCAP Touch Screen LCD GUI

Technical Specifications

Production Module

• Part number: uEZGUI-4088-43WQN-BA

• MSRP (Volume) <\$175.00 (USD)

• Contrast Ratio: 500:1 typical

• Brightness: 680 nits typical

Horizontal Viewing Angle: 70° L / 70° R

Vertical Viewing Angle 70° U / 50° D

• Power consumption typ/max: 500 / 650mA

• Overall Size: 116.8(W) x 72.1(H) x 14.2(D) mm

• Operating Temperature Range: -20°C to +70°C

• Viewable area: 95.0(W) x 53.8(H) mm

· Weight: 110g

• Touch Resolution: 480x272

Number Simultaneous Touches:1

• Glass Overlay: 0.55mm

• Glass Hardness: 6H

Development Kit

• Part number: uEZGUI-4088-43WQN

• MSRP (Qty 1): \$319.00 (USD)

• Includes uEZGUI-4088-43WQN-BA Production Module

AC power supply

• Mini JTAG debugger with cables

• USB device cables for power and PC communications

• 4GB (or larger) microSD Memory Card

Documentation and Example Software



uEZ Software

 μ EZ® (pronounced Muse) is an open source rapid development platform that allows companies to focus on innovation and their value-added applications while minimizing development time and maximizing software reuse. 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), and Hardware Abstraction Layer (μ EZ® HAL)

FreeRTOS with Tasks, Semaphores, Mutex, Queues	SafeRTOS option for safety critical real-time applications	emWin Graphics library free with NXP ARM MCUs	FAT FS for USB/SD card with long-file name support	<u>USB Host/Device</u> including mass storage, HID Libraries
<u>Wi-Fi</u> library with integration into TCP/IP Stack from GainSpan	SEGGER JTAG development and production SW integration	10/100 Ethernet support with IwIP TCP/IP Stack	Memory SDRAM, NOR Flash, SPIFI Flash support	<u>Audio</u> PWM, DAC, and I2S support
TFT LCD support for QVGA, VGA, WQVGA, WVGA Displays	Multiple compilers and IDEs supported	Modbus TCP/IP and RTU support	Serial Comms I2C, SPI, UART, RS232, RS485, CAN & GPIO	Bootloader for field updates over SD/ USB/Serial (affordable µEZ+)







