FDI

4.3" Resistive Touchscreen LCD GUI in a Housing

μEZ® GUI | 4.3 4WR

The 4.3" Resistive Touch LCD GUI in a Housing, uEZGUI-43-H01, provides a cost effective resistive touch option in the standalone microcontroller-based μEZ® GUI product family. Featuring a beautiful resistive touch TFT LCD panel, this product combines the high value 4.3" Resistive Touch LCD GUI, UEZGUI-1788-43WQR-BA, and uEZGUI-EXP1 expansion board together in a wall-mountable ABS plastic enclosure.

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.

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

Part #: **uEZGUI-43-H01**

Production guarantee of at least 10 years!

Product Features

- Wall Mountable 4.3" WQVGA 4-Wire Resistive Touch Screen LCD Panel
- Self-contained uEZGUI-1788-43WQR-BA Production Module with UEZGUI-EXP1 Expansion Board
- Black plastic ABS Housing
- Resolution: 480 x 272
- Brightness: 300 nits typical
- Contrast Ratio: 500 : 1 typical
- Horizontal Viewing Angle: 80° L / 80° R
- Vertical Viewing Angle: 55° U / 80° D
- External Communication Interfaces:
  - -RS232/RS485 Serial Communication via DB9
  - -USB Host and USB Device, 10/100 Ethernet with status LEDs
  - -DC Power Jack for external Wall Power (7-24 VDC)

partner of NXP

freeRTOS™ ARM Cortex Intelligent Processors by ARM Rowley Associates SEGGER IAR SYSTEMS

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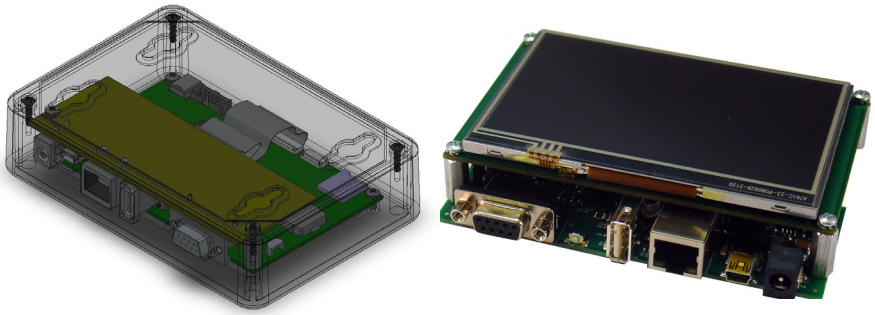
Technical Specifications

- NXP LPC1788 120MHz CPU with 512KB internal Flash
- 8MB of NOR Flash (optional to 32MB)
- 8MB of SDRAM (optional to 32MB)
- MicroSD Memory Card Socket
- NV Data Storage via 4KB Internal EEPROM
- Internal Real-Time Clock with Supercap Backup
- Speaker, 3-axis Accelerometer, Temperature Sensor
- Mini-JTAG Debug Connector
- Viewable area: 95.0(W) x 53.9(H) mm
- Overall Size: 140.97(W) x 96.27(H) x 31.75(D) mm
- Glass Overlay: 0.55mm
- Glass Hardness: 2H
- Operating Temperature Range: -20°C to +70°C
- Weight: 270.g
- Power consumption typ/max: 350 / 500mA
- Documentation and example software online

Production Module with Expansion Board...



...in a Housing!

uEZ Software

µEZ® (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. 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), and Hardware Abstraction Layer (µEZ® 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

USB Host/Device including mass storage, HID Libraries

Wi-Fi library with integration into TCP/IP Stack from GainSpan

SEGGER JTAG development and production SW integration

10/100 Ethernet support with lwIP TCP/IP Stack

Memory SDRAM, NOR Flash, SPIFI Flash support

Audio 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+)

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