

The 4.3" No Touch LCD GUI, **uEZGUI-1788-43WQT-BA**, provides a cost effective no touch option in the standalone microcontroller-based μEZ° GUI product family. This product is optimal for applications requiring a membrane keypad, rugged cap touch buttons or hot keys next to a beautiful TFT LCD display.

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.







Development Kit Part #: uEZGUI-1788-43WQT

Production Module Part #: uEZGUI-1788-43WQT-BA

Production guaranteed until 2024 or longer.





• USB Device Mini-AB for 5.0 VDC power and PC communications











Mini-JTAG Debug Connector

Module Features

8MB of NOR Flash (optional to 32MB)

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

8MB of SDRAM (optional to 32MB)
MicroSD Memory Card Socket

4.3" WOVGA 480 x 272 No Touch LCD Panel

NXP LPC1788 120MHz CPU with 512KB internal Flash

• External Expansion via two I/O Connectors (70 pins)

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TeamFDI.com



SEGGER

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4.3" No Touch LCD GUI

Technical Specifications

Production Module

- Part number: uEZGUI-1788-43WQT-BA
- Contrast Ratio: 500:1 typical
- Brightness: 360 nits typical
- Horizontal Viewing Angle: 80° L / 80° R
- Vertical Viewing Angle: 55° U / 80° D
- Power consumption typ/max: 350 / 500mA
- Overall Size: 116.8(W) x 72.1(H) x 11.9(D) mm
- Operating Temperature Range: -20°C to +70°C
- Viewable area: 95.0(W) x 53.9(H) mm
- Weight: 85g
- Resolution: 480x272
- Glass Overlay: 0.55mm
- Glass Hardness: 2H

Development Kit

- Part number: uEZGUI-1788-43WQT
- Includes uEZGUI-1788-43WQT-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 valueadded 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)

<u>FreeRTOS</u> with Tasks, Semaphores, Mutex, Queues	SafeRTOS option for safety critical real-time applications	<u>emWin Graphics</u> library free with NXP ARM MCUs	<u>FAT FS</u> 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	<u>10/100 Ethernet</u> support with IwIP TCP/IP Stack	<u>Memory</u> SDRAM, NOR Flash, SPIFI Flash support	<u>Audio</u> PWM, DAC, and I2S support
<u>TFT LCD</u> support for QVGA, VGA, WQVGA, WVGA Displays	Multiple compilers and IDEs supported	<u>Modbus</u> TCP/IP and RTU support	<u>Serial Comms</u> I2C, SPI, UART, RS232, RS485, CAN & GPIO	<u>Bootloader</u> for field updates over SD/ USB/Serial (affordable µEZ+)



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