

# Instant GUI 7.0" Touch Screen LCD Kit



**uEZGUI-1788-70WVE  
for the NXP LPC1788**



**0.545"  
thick**



## Highlights

### Features

- Seiko 7.0" TFT WVGA 800x480 LCD Panel with integrated Touch Screen
- NXP LPC1788 CPU running at 100MHz (with 512KB internal Flash)
- 8MB of SDRAM (opt to 32MB)
- 8MB of NOR FLASH (opt to 16MB)
- 2GB microSD Memory Card
- 128Mbit Serial PCM Memory
- NV Data Storage via I2C EEPROM
- Redpine Signals 802.11n Wi-Fi module
- USB Device Mini-B for power and PC communications
- Low power, Real-Time Clock with Supercap Backup
- Speaker, 3-axis Accelerometer, Temperature Sensor
- Mini-JTAG Debug Connector
- Fine Pitch I/O Connector for External Expansion
  - Serial Ports, UART, I2C, SPI, USB Host/Device
  - RMI interface for Ethernet 10/100



### Software

- uEZ™ / FreeRTOS Rapid Development Platform
- uEZ™ GUI enhancements with Nano-X/FLNX
- MicroSD card maps as USB Flash Drive to the PC
- Support for customer down load of logos, JPEG images and menu keys
- Rowley CrossWorks Compiler and Tool Suite
- Segger J-Link Lite JTAG for programming and debug



**FDI** *Future Designs, Inc.*  
Your Development Partner



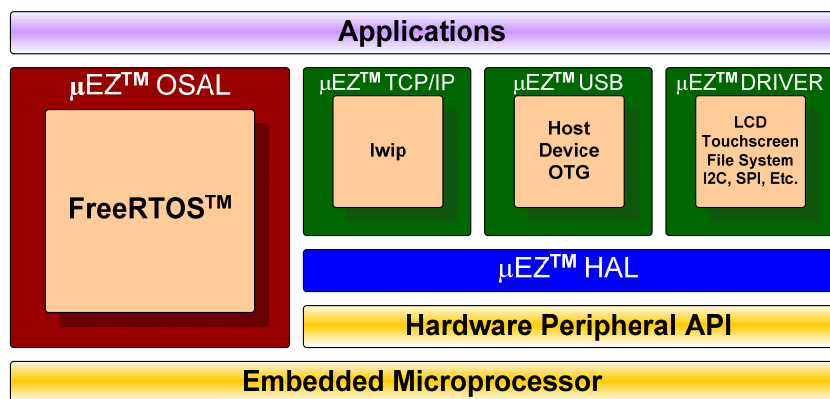
The NXP LPC1788 ARM Cortex-M3 based microcontroller runs the open source  $\mu$ EZ™ + FreeRTOS software platform. The LPC1788 has 512KB of internal Flash memory, 96KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, four UARTs, two CAN channels and a collection of serial communications interfaces. The  $\mu$ EZ GUI board also includes 8MB of external SDRAM and 8MB of external NOR Flash.

## Software Included

$\mu$ EZ™ (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.  $\mu$ EZ™ allows companies to focus on innovation and their value-added applications while minimizing development time and maximizing software reuse.

The diagram below shows a typical embedded application stack. The  $\mu$ EZ™ components comprise three primary categories to simplify embedded application development:

- Operating System Abstraction Layer ( $\mu$ EZ™ OSAL)
- Sub-system drivers (ex:  $\mu$ EZ™ TCP/IP,  $\mu$ EZ™ USB,  $\mu$ EZ™ Driver)
- Hardware Abstraction Layer ( $\mu$ EZ™ HAL)



The  **$\mu$ EZGUI-1788-70WVE** 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 be embedded directly into your product or FDI offers prepackaged versions for stand-alone use. FDI also offers low cost customization services for customer specific hardware, software or packaging applications at volumes of 500 units or more.

## Ordering Information

Part Number:  $\mu$ EZGUI-1788-70WVE  
NXP Part Number: OMxxxx  
Suggested Resale Price: \$399.00(USD)  
Order Online at: [www.teamfdi.com/uezgui](http://www.teamfdi.com/uezgui)

Warranty: 30-day money back guarantee  
Phone 256-883-1240 Fax 256-883-1241  
sales@teamfdi.com [www.teamfdi.com](http://www.teamfdi.com)

### Kit Contents:

- $\mu$ EZ™ GUI 7.0” Board with LPC1788
- Seiko 7.0” WVGA Touch Screen LCD
- USB Device cables for Power and PC communications
- Mini JTAG Debugger with cables
- $\mu$ EZ™ / FreeRTOS E-Book on microSD card

Download Users Manual, documents, schematics, and software examples at: [www.teamfdi.com/uEZGUI](http://www.teamfdi.com/uEZGUI)