# Instant GUI 7.0" Touch Screen LCD Kit

## UEZGUI-1788-70WVT
## for the NXP LPC1788

## Highlights

### Features

- 7.0" TFT WVGA 800x480 LCD Panel with integrated Touch Screen
- NXP LPC1788 CPU running at 120MHz (with 512KB internal Flash)
- 8MB of SDRAM (opt to 16MB)
- 8MB of NOR FLASH (opt to 16MB)
- 2GB microSD Memory Card
- USB Device Mini-B PC communications
- USB Device Mini-B connector for power
- NV Data Storage via 4kB Internal EEPROM
- Low power, Real-Time Clock with Supercap Backup
- Speaker, 3-axis Accelerometer, Temperature Sensor
- Mini-JTAG Debug Connector
- Optional 128Mbit Serial PCM Memory
- Optional Redpine Signals 802.11n Wi-Fi module
- Fine Pitch I/O Connectors for External Expansion
  - ➢ Serial Ports, UART, I2C, SPI, USB Host/Device
  - ➢ RMII interface for Ethernet 10/100

### Software

- uEZ® / FreeRTOS Rapid Development Platform
- MicroSD card maps as USB Flash Drive to the PC
- Rowley CrossWorks Compiler and Tool Suite (30-Day Trail)
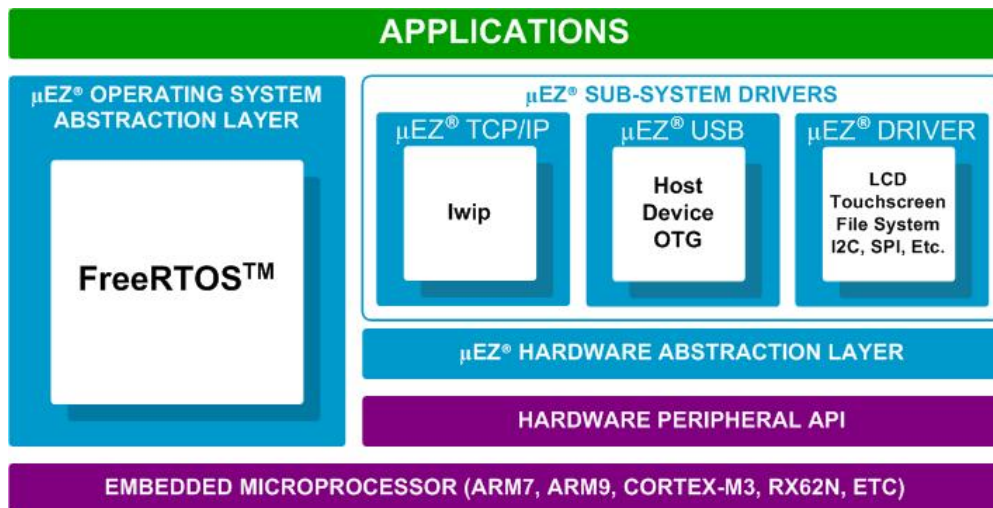- Segger J-Link Lite JTAG for programming and debug

The NXP LPC1788 ARM Cortex-M3 based microcontroller runs the open source uEZ® + 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 uEZ GUI board also includes 8MB of external SDRAM and 8MB of external NOR Flash.

## Software Included

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 below 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)



The **uEZGUI-1788-70WVT-BA** is the stand alone System On Module version and is priced at less than $200.00 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.

**Part Number: uEZGUI-1788-70WVT**
**Suggested Resale Price: $405.00(USD)**
**Order Online at:   www.teamfdi.com/uezgui**

**Warranty:  30-day money back guarantee**
**Phone  256-883-1240    Fax  256-883-1241**
**sales@teamfdi.com      www.teamfdi.com**

**Kit Contents:**
**- uEZ GUI 7.0" Board with LPC1788**
**- 7.0" WVGA Touch Screen LCD**
**- USB Device cables for Power and PC communications**
**-  Mini JTAG Debugger with cables**

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

**FDI Future Designs, Inc.**
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