

Instant GUI 7.0" LCD Kit with Projected Capacitive Touch Screen



uEZGUI-1788-70WVM



Highlights

Features

- 7.0" WVGA 800x480 TFT LCD with integrated Projected Capacitive Touch Screen
- NXP LPC1788 120MHz CPU with 512KB internal Flash
- 8MB of SDRAM (opt to 32MB)
- 8MB of NOR FLASH (opt to 16MB)
- 4bit High Speed SD interface supporting video playback
- 2GB microSD Memory Card
- USB Device Mini-AB PC communications
- USB Device Mini-B connector for power
- NV Data Storage via 4kB Internal EEPROM
- Internal Real-Time Clock with Supercap Backup
- Speaker, 3-axis Accelerometer, Temperature Sensor
- Mini-JTAG Debug Connector
- Optional 802.11n Wi-Fi module
- External Expansion via two I/O connectors (70 pins)
 - UART, I2C, SPI, USB Host/Device, RMII Ethernet



Software

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



Rowley Associates



FDI *Future Designs, Inc.*
Your Development Partner

Module Specifications

- Module P/N: **uEZGUI-1788-70WVM-BA**
- Contrast Ratio: 1000 typical
- Luminance: 400 cd/m2 typical
- Viewing Angle Horizontal: 85° L / 85° R
- Viewing Angle Vertical: 85° U / 85° D
- Power consumption typ/max: 650/TBD mA
- Size: 5.25" L x 6.75" H x 0.45" D
- Weight: 270g
- Operating Temperature Range: -20 °C to +70°C
- Touch Responsiveness: TBD
- Number Simultaneous Touches: 1
- Glass Overlay: TBD

The **uEZGUI-1788-70WVM-BA** is the stand alone System On Module version.

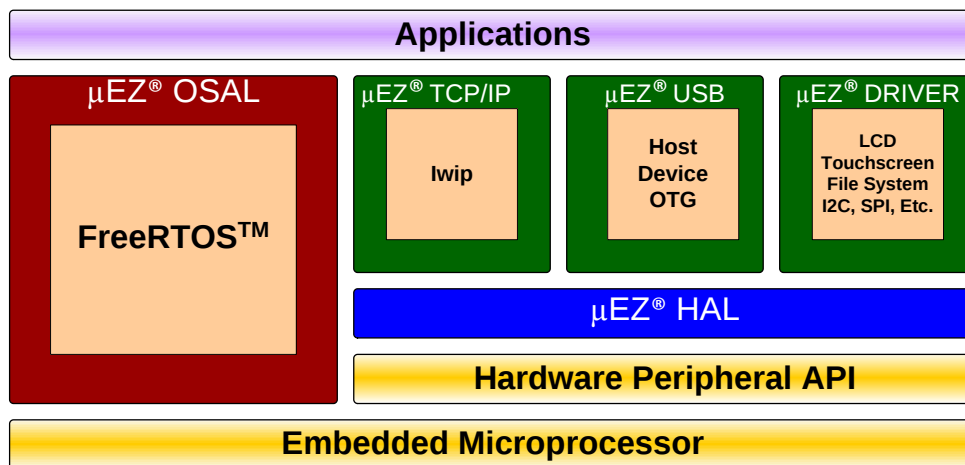
This unit is designed to be used as an “off-the-shelf” Graphical User Interface (GUI) or Human Machine Interface (HMI) in a variety of end customer applications. The miniature, self-contained design is well suited to embed directly into your product or FDI offers prepackaged versions. FDI also offers low cost customization services for customer specific hardware, software or packaging applications at volumes of 500 units or more.

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)



Ordering Information

Part Number: **uEZGUI-1788-70WVM**

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 Projected Capacitive 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

