Instant GUI 3.5" Touch Screen LCD Kit

uEZGUI-RX621-35QT
for Renesas RX6X Family

Highlights

Features

- Tianma 3.5" TFT QVGA Touch Screen LCD (320x240)
- Renesas RX621/RX62N CPU with up to 512KB internal Flash
- USB Device Mini-B for power and PC communications
- 512KB of PSRAM
- 2GB microSD Memory Card
- Speaker
- Full-size E1/E10 Compatible JTAG
- Actual Size: 3.1" x 3.05" x 0.54"
- External Expansion via 50-pin I/O Connector
  - Serial Ports, UART, I2C, SPI, USB Host/Device

Software

- uEZ® / FreeRTOS Rapid Development Platform
- MicroSD card maps as USB Flash Drive to the PC
- Renesas HEW Compiler and Tool Suite
- Segger J-Link Lite JTAG for programming and debug
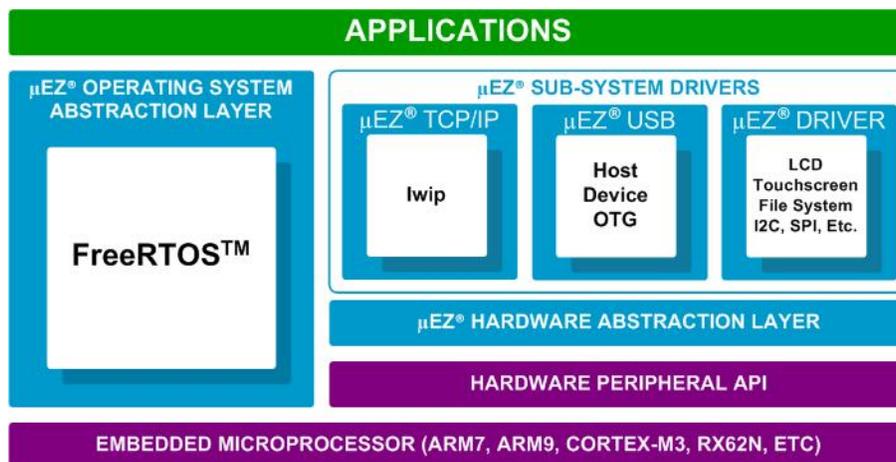- Segger emWin Demo

The **uEZGUI-RX621-35QT** includes a 100MHz Renesas RX621 or RX62N microcontroller running the open source uEZ® + FreeRTOS software platform. The RX62N 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, up to six UARTs, one CAN channels and a collection of serial communications interfaces. The unit also includes 512KB of external PSRAM.

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-RX621-35QT** 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 for stand-alone use (for example, the **uEZGUI-RX621-35QT-BA** 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-RX621-35QT

Order Online at: www.digikey.com
Warranty: 30-day money back guarantee
Phone 256-883-1240   Fax 256-883-1241
www.teamfdi.com

Kit Contents:
- uEZ® GUI 3.5" Board with RX621
- Tianma 3.5" QVGA Touch Screen LCD
- USB Device cable for Power and PC communications
- Mini JTAG Debugger with cables

FDI Future Designs, Inc.
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