4.3" WQVGA Touch Screen LCD Kit



Highlights

- SOMDIMM CPU Module based on SODIMM form factor (Dual Inline Memory Module)
 - RX63N 96MHz, 165 DMIPS microcontroller
 - $\circ~~$ 2MB of Internal FLASH, 128KB of Internal SRAM, 16MB of External SDRAM
 - o 10/100 Ethernet PHY
 - Mini-JTAG Debug Connector
- CARRIER Generic Carrier Board for CPU and LCD Modules
 - o 200-pin SOMDIMM Socket, supporting various processor modules
 - o 10/100 Ethernet Port, USB Host and Device ports
 - o One CAN port (Male DB9), One RS-232 port (Male DB9), External I2C interface
 - o 3-axis Digital Accelerometer & Temperature Sensor
 - Real-time Clock with SuperCap backup
 - TFT interface for Graphics LCD displays up to 1024x768 resolution, 18-bit color
 - Flexible Power Supply input can be wall supply or 5V USB
 - 2-Channel I²S Audio Codec
 - 802.11 Wi-Fi compatible
- LCDCARRIER
 - o 4.3" WQVGA Display (480 x 272) with Touch Screen Interface
 - Optional Display sizes of 4.3" and 4.7" WQVGA resolutions
- Software Included
 - FreeRTOS Operating System
 - uEZ[®] Rapid Development Platform
 - \circ $\,$ Drivers and APIs with documentation
- Supplied with easy-to-use application documents for all hardware and software
- Platform is based on a modular design for maximum flexibility
- Additional CPU DIMM and LCD Carrier boards under development

The DK-43WQT-RX63N is optimized to save development time in typical embedded control applications. The modular format uses a base Carrier Board, a core CPU SOMDIMM and an LCD Carrier Board. The base Carrier Board includes expansion connectors for added flexibility and a range of configurations. FDI offers low cost customization services for customer specific hardware, software or packaging applications at volumes of 500 units or more.

Features



Actual PCB dimensions are 2.66" x 1.89"

SOMDIMM-RX63N Description

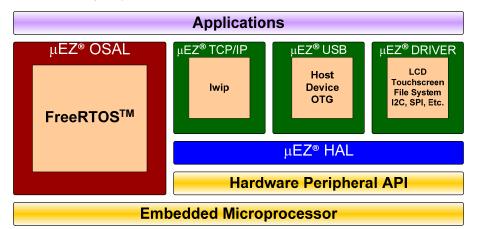
The SOMDIMM-RX63N includes a 96MHz Renesas RX63N microcontroller running the open source uEZ® + FreeRTOS software platform. The RX63N has 2MB of internal Flash memory, 128KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, up to eight UARTs, two CAN channels and a collection of serial communications interfaces. The SOMDIMM-RX63N also includes 16MB of external SDRAM.

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 $\mu EZ\mathbb{R}$ 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: DK-43WQT-RX63N

Warranty:30-day money back guaranteePhone256-883-1240Fax256-883-1241sales@teamfdi.comwww.teamfdi.com

Kit Contents:

- SOMDIMM-RX63N Board
- CARRIER Board
- LCDCARRIER Board 4.3" WQVGA LCD Touch Screen
- 5VDC, 2.3A North American Power Supply
- USB and Ethernet Cables
- Segger JTAG Debugger with cables

Download Users Manual, documents, schematics, and software examples at:

www.teamfdi.com/DK-43WQT-RX63N

