

4.3" WQVGA Touch Screen LCD Kit



DK-43WQT-RX63N
For the Renesas RX63N

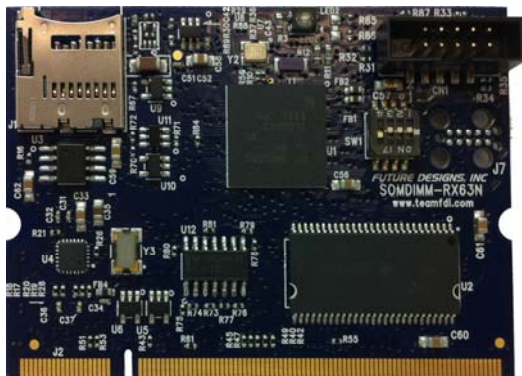


Highlights

- **SOMDIMM – CPU Module based on SODIMM form factor (Dual Inline Memory Module)**
 - RX63N 96MHz, 165 DMIPS microcontroller
 - 2MB of Internal FLASH, 128KB of Internal SRAM, 16MB of External SDRAM
 - 10/100 Ethernet PHY
 - Mini-JTAG Debug Connector
- **CARRIER – Generic Carrier Board for CPU and LCD Modules**
 - 200-pin SOMDIMM Socket, supporting various processor modules
 - 10/100 Ethernet Port, USB Host and Device ports
 - One CAN port (Male DB9), One RS-232 port (Male DB9), External I2C interface
 - 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
 - Redpine and Roving Networks Wi-Fi compatible
- **LCD CARRIER**
 - 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
 - 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

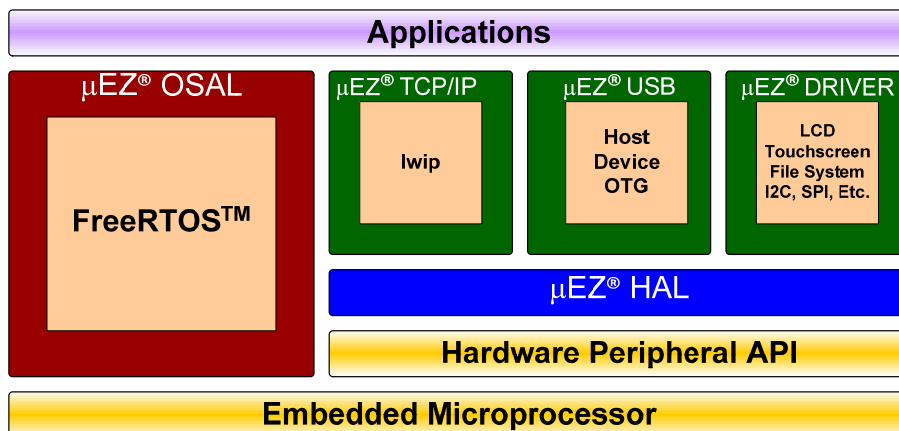
The SOMDIMM-RX63N includes a 96MHz Renesas RX63N microcontroller running the open source μ EZ[®] + FreeRTOS software platform. The RX63N has 2MB of internal Flash memory, 128KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, up to eight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

Software Included

μ 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. μ 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 μ EZ[®] components comprise three primary categories to simplify embedded application development:

- Operating System Abstraction Layer (μ EZ[®] OSAL)
- Sub-system drivers (ex: μ EZ[®] TCP/IP, μ EZ[®] USB, μ EZ[®] Driver)
- Hardware Abstraction Layer (μ EZ[®] HAL)



Ordering Information

Part Number: DK-43WQT-RX63N
Renesas Part Number: TBD

Suggested Resale Price: \$450.00(USD)
Order Online at: www.teamfdi.com

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

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