4.7” WQVGA Touch Screen LCD Kit

DK-47WQT-RX62N

For the Renesas RX62N

RENESAS RX

PLATINUM PARTNER RENESAS

Highlights

- **SOMDIMM – CPU Module based on SODIMM form factor (Dual Inline Memory Module)**
  - **RX62N 100MHz, 165 DMIPS microcontroller**
  - **512KB of Internal FLASH, 96KB of Internal SRAM, 8MB 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 I^2S Audio Codec**
  - **Redpine and Roving Networks Wi-Fi compatible**

- **LCDCARRIER**
  - **4.7”W QVGA Display (480 x 272) with Touch Screen Interface**
  - **Optional Display sizes of 4.3” and 4.7” WQVGA resolutions**

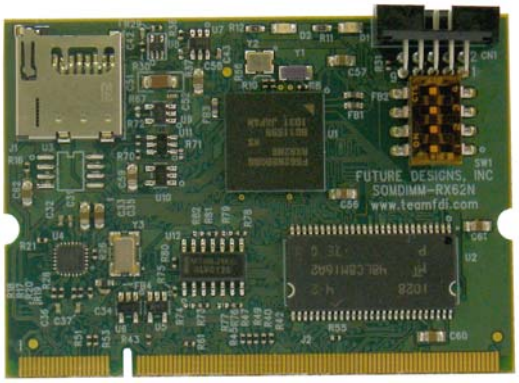
- **Software Included**
  - **FreeRTOS Operating System**
  - **uEZ® Rapid Development Platform**
  - **Drivers and APIs with documentation**

- **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-47WQT-RX62N 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-RX62N Description

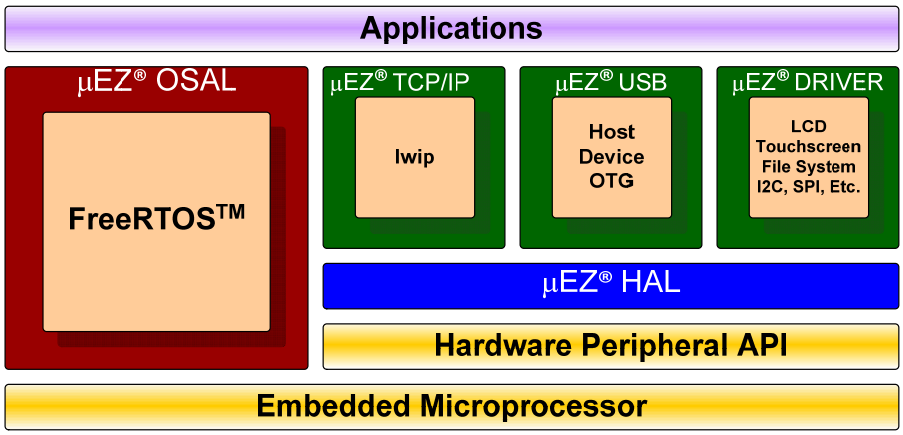
The SOMDIMM-RX62N includes a 100MHz Renesas RX62N microcontroller running the open source uEZ® + FreeRTOS software platform. The RX62N has 512KB of internal Flash memory, 96KB of internal SRAM, a 10/100 Ethernet Media Access Controller (MAC), a USB full speed device/host/OTG controller, up to six UARTs, one CAN channels and a collection of serial communications interfaces. The SOMDIMM-RX62N also includes 8MB 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 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: DK-47WQT-RX62N
Renesas Part Number: TBD

Suggested Resale Price: $475.00(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-RX62N Board
- CARRIER Board
- LCDCARRIER Board & 4.7” 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:

FDI Future Designs, Inc.
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