



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

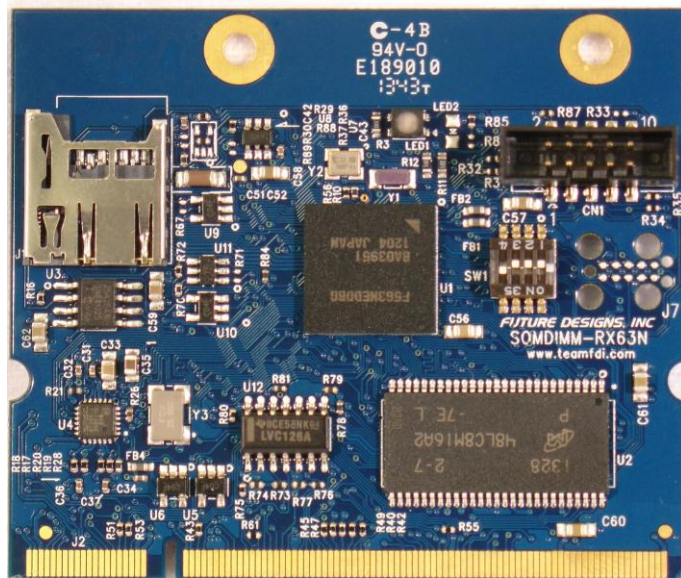
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# SOMDIMM-RX63N



*Modular RX63N based  
Microcontroller Plug-In  
System-On-Module*

**RENESAS**



The SOMDIMM-RX63N provides a quick and easy solution for implementing an RX600 based design by providing the basic functions necessary for a product on an easy to use SOMDIMM. The SOMDIMM uses an industry standard 200 pin SO-DIMM interface. These sockets are utilized by virtually every laptop on the market.

This SOMDIMM is compatible with FDI's Family of Touch Screen LCD Kits but can also be used for custom platform development or customer applications.

The SOMDIMM-RX63N includes a Renesas RX63N based microcontroller running the open source uEZ<sup>®</sup> + 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.

## Highlights

- **SOMDIMM – CPU Module**
  - Based on SODIMM form factor (Dual Inline Memory Module)
  - RX63N 100MHz RX600 based microcontroller
  - 2MB of Internal FLASH, 128KB of Internal SRAM
  - 16MB of External SDRAM
  - 10/100 Ethernet PHY
  - Mini-JTAG and micro SDCard connectors
  - PCB Dimensions 2.661" x 2.265"
- **Software Included**
  - FreeRTOS Operating System
  - uEZ<sup>®</sup> Rapid Development Platform
  - Complete COM Drivers and APIs with documentation
- Includes on-line application documents for all hardware and software
- Platform is based on a modular design for maximum flexibility
- Distribution stocking with volume discounts available

# Features



## DK-TS-KIT Description

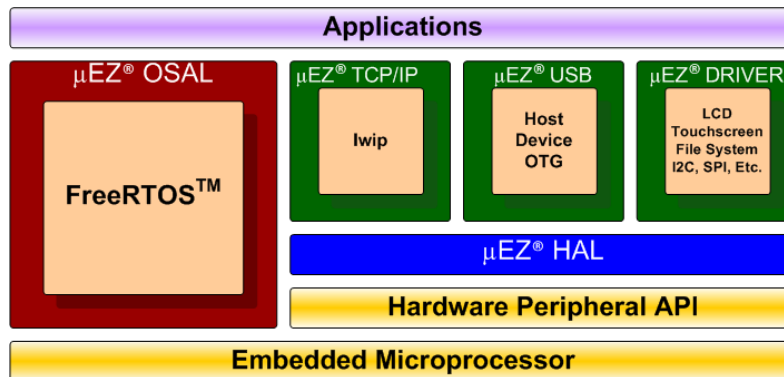
The DK-43WQT-RX63N is optimized to save development time in typical embedded control applications. The modular format uses a base Carrier Board, a core CPU SOMDIMM and an LCD Carrier Board. The base Carrier Board includes expansion connectors for added flexibility and a range of configurations. FDI offers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

## Software Included

$\mu$ EZ<sup>®</sup> (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.  $\mu$ EZ<sup>®</sup> 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<sup>®</sup> components comprise three primary categories to simplify embedded application development:

- Operating System Abstraction Layer ( $\mu$ EZ<sup>®</sup> OSAL)
- Sub-system drivers (ex:  $\mu$ EZ<sup>®</sup> TCP/IP,  $\mu$ EZ<sup>®</sup> USB,  $\mu$ EZ<sup>®</sup> Driver)
- Hardware Abstraction Layer ( $\mu$ EZ<sup>®</sup> HAL)



# Ordering Information

Part Number: SOMDIMM-RX63N

Suggested Resale Price: \$95.00 (USD)

Order Online at: [www.teamfdi.com](http://www.teamfdi.com)

Warranty: 30-day money back guarantee  
Phone 256-883-1240 Fax 256-883-1241  
sales@teamfdi.com [www.teamfdi.com](http://www.teamfdi.com)

Kit Contents:

- SOMDIMM-RX63N Board
- $\mu$ EZ<sup>®</sup> Software pre-loaded on units purchased individually but not on OEM units

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

[www.teamfdi.com/SOMDIMM-RX63N](http://www.teamfdi.com/SOMDIMM-RX63N)



**FDI** *Future Designs, Inc.*  
Your Development Partner