



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

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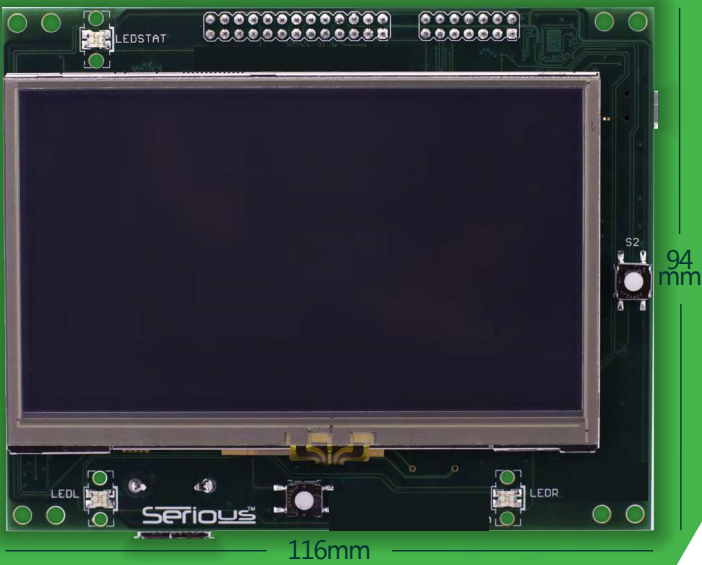
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4.3" WQVGA Graphic/Touch Module Family

Powered by the Renesas RX631/RX63N  MCU



SIM225 Family Features

- 4.3" WQVGA 480x272 color TFT display
 - Various touch panel options
- 100MHz 32-bit Renesas RX631/RX63N MCU
 - 128KB RAM, 512KB-2MB FLASH, Direct Drive
 - Integrated Temp Sensor & RTCC
- On Module Memory
 - 8-16MB SDRAM
 - 8-16MB serial FLASH + 2Kbit EEPROM
- Extensive I/O
 - 24-Pin FFC (GPIO, +5V, RESET#, UART)
 - RMI on 63N-based units
 - *Serious* 7-pin system-to-system connector
 - E1 debug port
- -20 to 70°C extended operating temperature

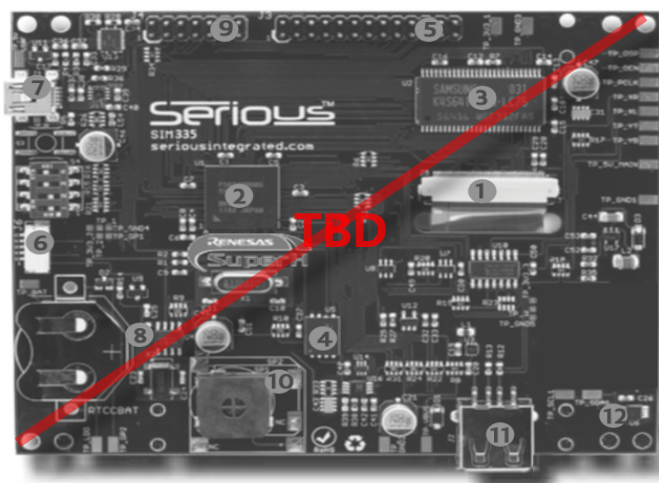
Update your product's front panel with *Serious* modules:

- ✓ **Production worthy**
- ✓ **Prototype friendly**
- ✓ **Rapid GUI development**

| Product Options | A00 | A01 | A02 | A03 | A04 |
|---|---------|-----|-------|-----|-----|
| MCU RX Family | 63N | | 631 | | |
| MCU FLASH (KBytes) | 2048 | 768 | 512 | | |
| SDRAM + Serial FLASH (MBytes) | 16 + 16 | | 8 + 8 | | |
| Touch | R4 | R4 | ○ | R4 | ○ |
| USB2.0 FS device connector | ● | ● | ○ | ● | ○ |
| USB2.0 FS embedded 150mA host port | ● | ○ | ○ | ○ | ○ |
| Speaker/Amplifier | .7W | ○ | ○ | ○ | ○ |
| Piezo Buzzer | ○ | ● | ● | ● | ● |
| LiPo System Battery Support | ● | ○ | ○ | ○ | ○ |
| Battery Backed Clock | ● | ○ | ○ | ○ | ○ |
| PCB Temp Sensor (in addition to MCU TS) | ● | ○ | ○ | ○ | ○ |

PRELIMINARY PRODUCT PREVIEW: SUBJECT TO CHANGE

SIM225 | GUI Development and Support



Building a GUI can be hard. We can help.

Serious offers accelerated paths to traditional coded development as well as ultra-fast GUI creation using the Serious Human Interface™ Platform.

Jump Start Your Traditional GUI Coding

You can waste months porting an OS and developing the board support package, basic support utilities, and graphics libraries -- even before writing the first line of traditional C-based GUI code. *Serious* gets you there in minutes, not months!

No-cost software development tools for C-based projects with the Renesas High Performance Embedded Workbench (HEW) and KPIT GNU toolsuite.

RTOSs: [Micrium μC/OS-III](#) and [Segger embOS](#) professional-grade kernels (with full single-use commercial licenses) as well as the standard open-source [FreeRTOS](#) kernel are pre-ported to the hardware.

Out-of-the-box cross-OS drivers including SPI, I2C, UART, RTCC, CAN, Direct Drive Graphics, Touch, and Timer with full source code. The SIM225 also includes pre-ported Renesas GAPI libraries.

Ultra-Fast GUI Development with SHIP

Looking for comprehensive PC/MAC/Linux-based WYSIWYG rapid-GUI development environment with minimal coding? Use the Serious Human Interface™ Platform (SHIP) to create a complete, communicating and functioning GUI in as little as *hours*. See www.seriousintegrated.com/SHIP for details.

Support and Services

Serious offers comprehensive software, hardware and GUI customization and development services. [Contact Serious](#) for information. mySerious.com offers community and *Serious* support for all registered users of *Serious* modules.

Partner Support

***Serious* is a Renesas Platinum Partner:** *Serious* Integrated Modules are supported with software and services from Renesas and *Serious* strategic partners.



Micrium



Authorized Stocking Distributors



Need More Info?

- Contact your *Serious* Representative
- Contact your Arrow Electronics Applications Engineer
- Visit seriousintegrated.com/SIM225
- Visit the *Serious* community at mySerious.com

PRELIMINARY PRODUCT PREVIEW: SUBJECT TO CHANGE

