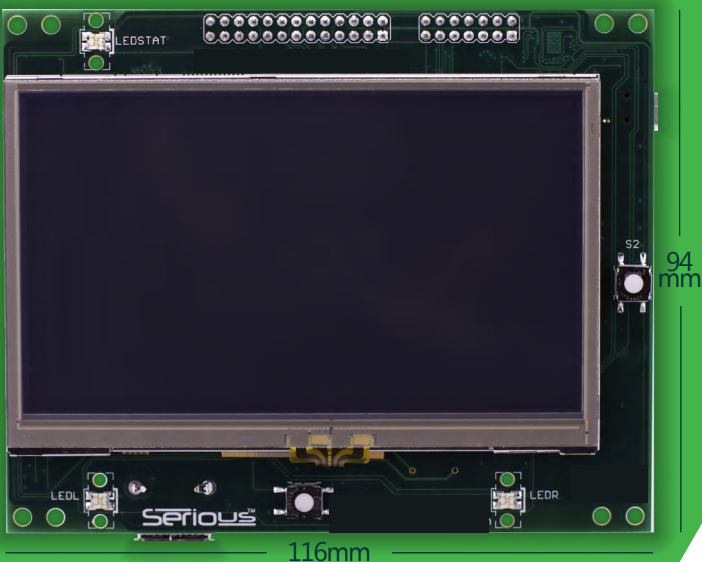


4.3" WQVGA Graphic/Touch Module Family

Powered by the Renesas RX631/RX63N  MCU



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

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

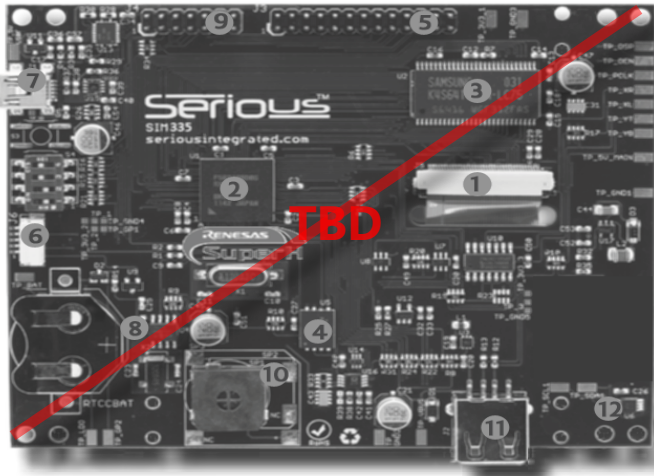
SIM225 Family Features

- 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

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

