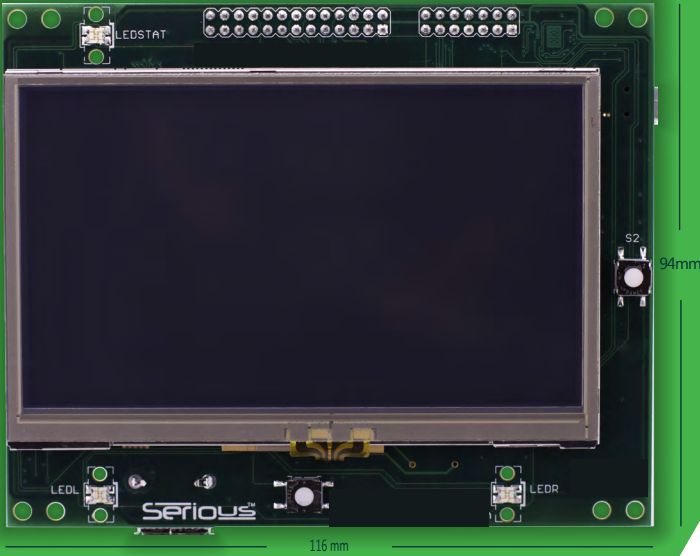


## 4.3" WQVGA Graphic/Touch Module Family

Powered by the Renesas RX621  MCU



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

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

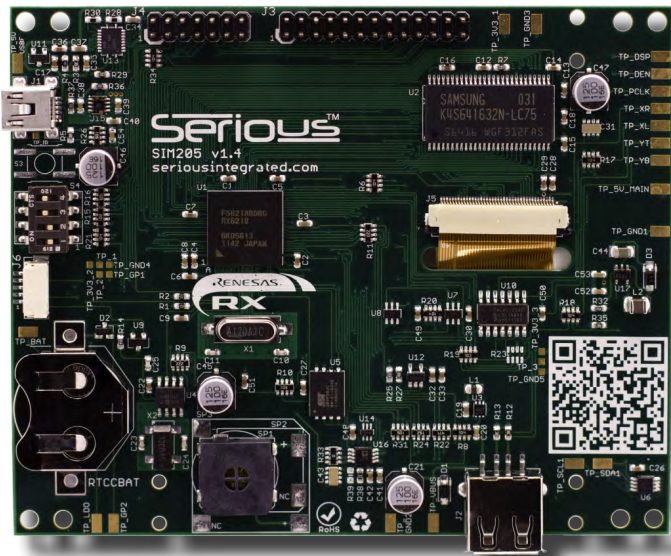
### SIM205 Family Features

- 4.3" WQVGA 480x272 color TFT display
- Various touch panel options
- 100MHz 32-bit Renesas RX621 MCU
  - 96KB RAM, 512KB FLASH
  - Direct Drive Technology
- On Module Memory
  - 8MB SDRAM
  - 8MB serial FLASH
- Flexible I/O
  - 26-Pin Header (GPIO, +5V, RESET#, UART, SPI, ...)
  - 14-Pin E1 debug port
- 116 x 94mm;
- 0 to 70°C Operating Range

Product Options	A00	A01*	A02*
Touch	R4	R4	○
USB2.0 FS device connector	●	●	○
USB2.0 FS embedded 150mA host port	●	○	○
Speaker/Amplifier	.7W	○	○
Piezo Buzzer	○	●	●
LiPo System Battery Support	●	○	○
Battery Backup for RTCC	●	○	○
System Temperature Sensor	●	○	○

\*Proposed products subject to change

# SIM205 | 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.

**RTOS:** [Micrium  \$\mu\$ C/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 SIM205 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](http://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](http://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/SIM205](http://seriousintegrated.com/SIM205)
- Visit the *Serious* community at [mySerious.com](http://mySerious.com)

