

The Future Designs, Inc. ΣyG™ Family provides a complete and qualified Graphical User Interface (GUI) / Human Machine Interface (HMI) platform for the rapid release of customer products. The core of ΣyG (pronounced, "sig") is Renesas Synergy™ – a comprehensive and integrated software-based microcontroller platform. FDI adds the Synergy platform to its GUI hardware, systems and production expertise. The end result is a sum of high-quality products that provide a robust and proven source for GUI and HMI solutions:

$$\Sigma y G^{\text{TM}} = \text{Renesas Synergy}^{\text{TM}} + \text{GUI}$$

The ΣyG-S7G2 Modular Development Kit for the System on Module is the gateway for beginning Renesas Synergy™ projects. The ΣyG-S7G2 Modular Development Kit is compatible with FDI's ΣyG Modular Development LCD Kits but can be used independently as a lower cost option for those embedded applications without the need for a touch screen display. FDI offers low cost customization services for customer specific hardware, software or packaging applications at volumes of 500 units or more.

FDI also offers engineering design and production support services. FDI is committed to saving customers time, money and hassle. So, no matter how much (or little) support you need along the way, FDI can make your project concept a reality.

Part Number: SYG-S7G2-MDK

Available for immediate order at www.TeamFDI.com or from any of FDI's franchised distributors.

Kit Contents

- Renesas Synergy™ SYG-S7G2-SOM Board
- Carrier Board
- 5 VDC, 2.3A North American Power Supply
- USB and Ethernet Cables
- Segger JTAG debugger and cables



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[YouTube.com/
FDIProducts](http://YouTube.com/FDIProducts)

Technical Specifications

SOM – CPU Module

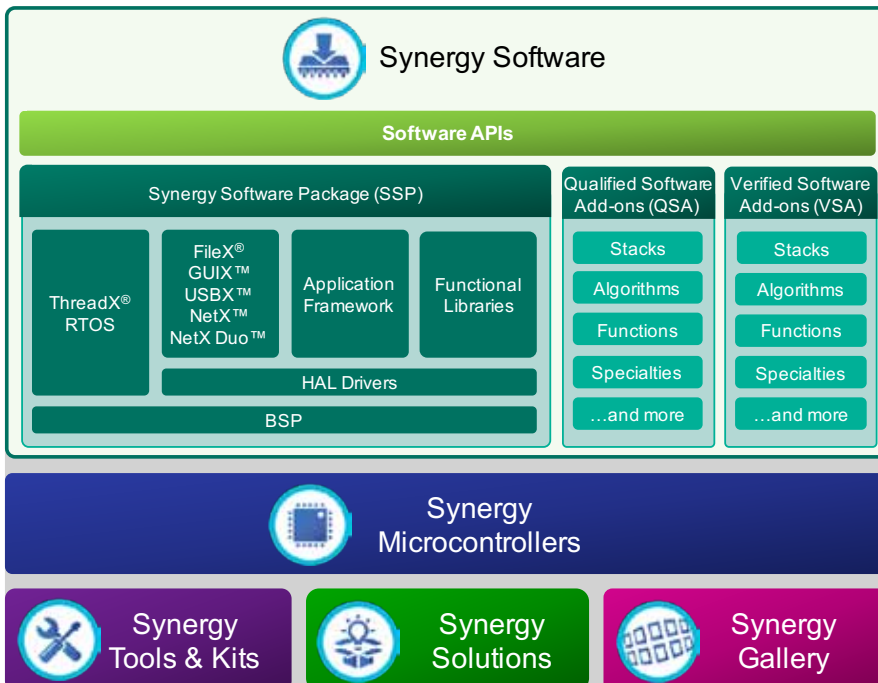
- Based on SODIMM form factor (Dual Inline Memory Module)
- Renesas Synergy™ S7G2 240MHz microcontroller
- 4MB of Internal flash, 640KB of Internal SRAM
- 16MB of External SDRAM
- 10/100 Ethernet PHY
- Mini-JTAG and micro SDCard connectors
- PCB Dimensions 67.6 x 57.5 mm

Carrier Board

- 200-pin SOMDIMM socket
- 10/100 Ethernet PHY
- 1 CAN port (Male DB9)
- 1 RS-232 port (Male DB9)
- External I2C interface
- 3-axis Digital Accelerometer & Temperature Sensor
- Real-time clock with SuperCap backup
- Flexible power supply input can be wall supply or 5V USB
- TFT interface for LCD displays up to 1024 x 768, 18 bpp



Synergy Software



RENESAS synergy™

Accelerate. Innovate. Differentiate.

The Renesas Synergy Software Platform Includes:

- Express Logic's ThreadX® RTOS, communication stacks, files systems & graphics library
- Optimized, scalable 32-bit MCU family
- Advanced security support
- Associated developer's tools with context-aware documentation

See more at: TeamFDI.com/SynergySoftware



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