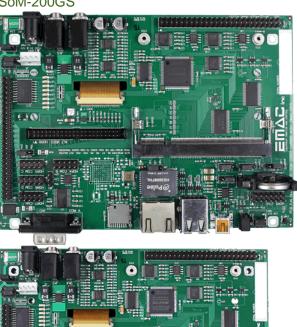


Published on EMAC Inc. (https://www.emacinc.com)

Source URL: https://www.emacinc.com/content/som-200gs

## SoM-200GS









4x Serial Ports (3x RS232 & 1xRS232/422/485)

1x 10/100/1000 BaseT Ethernet with Status LEDs

2x USB 2.0 Hosts & 1x USB OTG Port

1x SD Flash Card Socket

WiFi 802.11 b/g/n [optional]

Bluetooth 3.0 + High Speed [optional]

1x CAN 2.0 Port

24x General Purpose Digital (PLD) I/O Lines (PLD Option)

- o 8x Digital Input Lines
- o 8x Digital Output Lines with 20 ma. drive
- $\circ~8x$  High Drive Digital Output Lines with Status LEDs (500 ma. sink)

32x SoM Specific I/O Lines

Reset Button

Power & SD/WiFi Activity Status LEDs

1x I2C

1x SPI (3 chip selects)
1x I2S Audio Line In/Out Port
1x 4.3" WQVGA (480x272)
1x 4-wire Resistive Touch Screen Interface
Backlight Brightness Control
1x 44-pin dual row 2mm auxiliary video/touch connector
5V +/- 10% @ 100mA. (130mA with WiFi) Typical
Floppy power supply connector and standard barrel power jack
0 to 60c [-40 to +85C optional]
90% Upper Operating Humidity
4.375" x 6.0" (111.13 x 152.40mm)
The SoM-200GS is a compact, low-power SoM Carrier/Socket board with a optional 4.3 inch WQVGA (480 x 272) color LCD and resistive touch screen. This versatile SoM Carrier/Socket board is ideal for evaluation and early development work. This Carrier is designed to work with all EMAC 200-pin SODIMM type SoMs. Note: The SoM-200GS is specifically designed for SoMs with Video & USB capability.
The SoM-200GS provides access to much of the SoM's I/O through on-board connectors as well as a number of additional I/O expansion blocks such as Video, Touchscreen, Wireless Networking, Gigabit Ethernet and Micro HCSD/MMC flash disk.
Although a good deal of customers will want a Carrier that is unique and is designed specifically for their application, the SoM-200GS when coupled with a SoM-A5D36, SoM-3354M, or SoM-3517M SODIMM SoM makes for a powerful User Interface Control System with USB

ue and is designed specifically for their application, the SoM-200GS when MM SoM makes for a powerful User Interface Control System with USB and Ethernet capabilities. This allows the user to gather data and respond with Control commands via the Internet.

When a unique custom board is required, the amount of design work required is greatly minimized by the SoM approach. The custom Carrier designer does not have to worry about the processor, memory, and standard I/O functions and can concentrate on the I/O, connectors and dimensional aspects required for the application.

In situations where a custom Carrier is required but the customer does not have the capability to design such a board in-house, EMAC's Custom to Order Services (COS) can be utilized. Using COS the customer can select from a library of standard I/O blocks. These blocks can be put together quickly into a form-factor of the customer's choosing, providing prototypes in as little as 30 days.

**Specifications** 

SOM Type:

SODIMM Carrier Boards

Processor Real Time Clock:

Primary I/O

Up to 56x I/O Lines

Video Out:

1x 4.3" Graphic LCD Interface for TFT WQVGA (480x272)

SPI:
1x SPI (3 chip selects)
Audio:
1x I2S Audio port with Line-In/Line-Out
Ethernet:
1x 10/100/1000 BaseT
USB:
2x USB 2.0 Hosts & 1x USB OTG
Serial Ports:
4x Serial Ports (3x RS232 & 1xRS232/422/485)
I2C:
1x I2C hardware port
Watchdog:
Secondary I/O
1x CAN 2.0 Port
LPT Port:
Keypad: PS/2:
Touch: 1x 4-wire Resistive Touch Screen Interface
1x 4-wire Resistive Touch Screen Interface
Analog on A. P.
D/A:
Dimensions Dimensions
$4.37 \times 6 \text{ in}$
Dimensions Misc.:
4.375" x 6.0" (111.13 x 152.40mm)
Power Requirements
5 V
Environmental Low Operating Temperature:
0 C
High Operating Temperature: 60 C
Upper Operating Humidity:
90%
Environmental Misc.:
0° to 60°C Operating Temperature [-40° to +85°C optional] 90% Upper Operating Humidity Floppy power supply connector and standard
barrel power jack
barrer power jack
Pricing Solvi-2000S-000
Standard 200-pin Carrier with SD Card, Audio, CAN, PLD & 4.3" LCD
\$245.00
Order:
0
Parent Product:
SoM-200GS
Base Product:
SoM-200GS

SoM-200GS-001 Deluxe 200-pin Carrier with WiFi, Audio, CAN, PLD & 4.3" LCD, without SD Card Socket \$295.00 Order: Parent Product: SoM-200GS Base Product: SoM-200GS SoM-200GS-007 Bare Bones 200-pin Carrier w/SD Card & CAN, without Audio, PLD & LCD \$145.00 Order: 0 Parent Product: SoM-200GS Base Product: SoM-200GS Non-Stock NCNR: Carrier Boards: SoM-9G45M-110 w/ AT91SAM9G45 CPU, 512 MB FLASH 128 MB RAM \$190.00 Base Product: SoM-9G45M SoM-9M10M-130 w/ AT91SAM9M10 CPU, 1 GB FLASH 256 MB RAM \$250.00 Base Product: SoM-9M10M SoM-3517M-131 TI ARM Cortex-A8 CPU, 4GB eMMC FLASH, 256MB RAM (0 ~ +70C) \$198.00 Base Product: SoM-3517M SoM-3517M-141 TI ARM Cortex-A8 CPU, 4GB eMMC FLASH, 512MB RAM \$0.00 Base Product: SoM-3517M SoM-3517M-339 TI ARM A8 CPU, 512MB NAND FLASH, 256MB RAM, INDUSTRIAL TEMP (-40C ~ +85C) \$0.00 Base Product: SoM-3517M SoM-3354M-140 SOM-3354, TI AM3354 ARM-A8, 512MB RAM, 4GB eMMC Flash, 16MB Serial Data flash, 4x COM, 3x USB2, 10/100 ETH, Video (-40 to +85) \$160.00 Base Product: SoM-3354M SoM-A5D36-140

ARM A5 VID/GbE+EMAC interface for Carrier PHY support for Dual LAN/USB/512MB RAM, 4GB eMMC, -40 to +85, RoHS \$150.00
Base Product:

Source URL: https://www.emacinc.com/content/som-200gs

SoM-A5D36