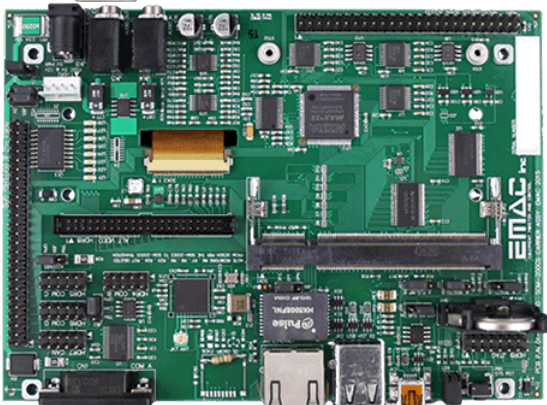
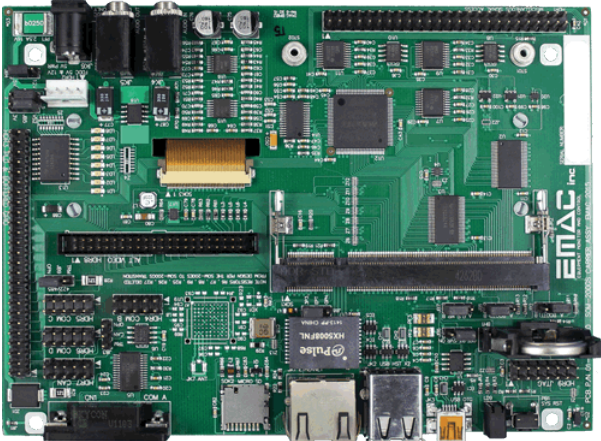


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SoM-200GS



WiFi Bluetooth®



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[EMAC OEM](http://www.emacinc.com/sites/default/files/EMAC%20OEM%20LOGO_sm_web-opt_3.png)

- 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)
 - 8x Digital Input Lines
 - 8x Digital Output Lines with 20 ma. drive
 - 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 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

GPIO:

Up to 56x I/O Lines

SPI:

1x SPI (3 chip selects)

Video Out:

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

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

CAN:

1x CAN 2.0 Port

LPT Port:

Keypad:

PS/2:

Touch:

1x 4-wire Resistive Touch Screen Interface

Analog on

A/D:

D/A:

Dimensions

Dimensions:

4.37 × 6 in

Dimensions Misc.:

4.375" x 6.0" (111.13 x 152.40mm)

Power Requirements

Voltage:

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

Pricing

SoM-200GS-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:

0

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:

0

Carrier Boards:

Title: SoM-9G45M-110

w/ AT91SAM9G45 CPU, 512 MB FLASH 128 MB RAM

\$190.00

Base Product:

SoM-9G45M

Title: SoM-9M10M-130

w/ AT91SAM9M10 CPU, 1 GB FLASH 256 MB RAM

\$250.00

Base Product:

SoM-9M10M

Title: SoM-3517M-130

TI ARM Cortex-A8 CPU, 2GB eMMC FLASH, 256MB RAM (0 ~ +70C)

\$198.00

Base Product:

SoM-3517M

Title: SoM-3517M-141

TI ARM Cortex-A8 CPU, 4GB eMMC FLASH, 512MB RAM

\$0.00

Base Product:

SoM-3517M

Title: SoM-3517M-339

TI ARM A8 CPU, 512MB NAND FLASH, 256MB RAM, INDUSTRIAL TEMP (-40C ~ +85C)

\$0.00

Base Product:

SoM-3517M

Title: 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

Title: SoM-A5D36-140

ARMA5 VID/GbE/USB/512MB RAM, 4GB eMMC, -40 to +85, RoHS

\$150.00

Base Product:

SoM-A5D36

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