

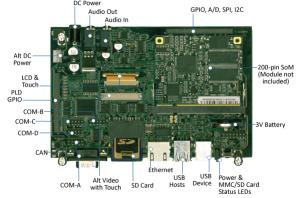
Published on EMAC Inc. (https://www.emacinc.com)

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## SoM-200ES







\*System on Module (SoM) - Module not included

Small, Half-EBX mounting hole form factor (4.37" x 6.00") 1x 10/100 BaseT Ethernet with onboard Magnetics and RJ45 4x Serial Ports (3x serial RS232 ports & 1x RS232/485 port) 24x General Purpose digital (PLD) I/O lines (PLD Option) o 8 Digital Input lines o 8 Digital Output lines with 20 ma. drive ○ 8 High Drive Digital Output lines with status LEDs (500 ma. sink) 32x SoM Specific lines Resistive Touch Screen Interface 4.3" Graphic LCD interface with WQVGA TFT LCD with Touch Battery for nonvolatile RAM and Real Time Clock MMC/SD Flash Card Socket Dual USB Host Jack USB Device Jack 1x CAN 2.0 Port System Reset button

## ON-BOARD OPTIONS FOR STANDARD CARRIER

I2S Audio Stereo CODEC with line-in & line-out

Power and Flash Drive Status LEDs

## Battery for nonvolatile RAM and Real Time Clock LCD interface and Touchscreen connectors Dual USB Host Jack USB Device Jack MMC/SD Flash Card Socket 2x Serial RS232 Ports System Reset button The SoM-200ES is versatile SoM Carrier/Socket board ideal for evaluation and early development work. This Carrier is designed to work with all EMAC 200-pin SODIMM type SoMs. Note: The SoM-200 is specifically designed for SoMs with Video & USB capability. The SoM-200ES provides access to all the SoM's I/O through on-board connectors as well as a number of additional I/O expansion blocks such as Video, Touchscreen. Digital I/O, Audio CODEC, and MMC/SD flash disk. Full schematics of the SoM-200ES are provided giving the user a solid base with which to design their own SoM Carrier. Schematics of the SoM-200ES are included on the CD provided with the Carrier board. Although a good deal of customers will want a Carrier that is unique and is designed specifically for their application, the SoM-200ES when coupled with a SoM-3517 SODIMM SoM makes for a powerful User Interface Contol System with USB and Ethernet capabilities. This allows the user to gather data and respond with Control commands via the Internet. An Enclosure and Power Supply are available options for the SoM-200ES.

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.

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

Specifications

SOM Type:

SODIMM Carrier Boards

and dimensional aspects required for the application.

BARE-BONES FEATURES

Small, Half-EBX mounting hole form factor (4.37" x 6.00")

10/100 BaseT Ethernet with onboard Magnetics and RJ45 Jack

Processor Real Time Clock:

Memory Primary mash:

MMC/SD Flash Slot

Secondary Flash:

1x SD Flash Card Socket

Primary I/O

GPIO:	
24x GPIO Lines	
32 SOM Specic I/O Lines	
Video Out:	
1x 4-wire Resistive Touch Screen Interface	
Audio:	
1x I2S Audio Line In/Out Port	
Ethernet:	
1x 10/100 BaseT Ethernet with onboard Magnetics and RJ45	
USB:	
2x USB 2.0 Host Ports	
1x USB 2.0 Device Port	
Serial Ports:	
4x Serial Ports (3x RS232 & 1x RS232/485)	
Watchdog:	
Primary I/O Misc.:	
32x SoM Specific I/O Lines	
Lines as provided by 200pin SoM module	
24x General Purpose Digital (PLD) I/O Lines (PLD Option)	
0. 7: 1.11	
8x Digital Input Lines	
8x Digital Output Lines with 20 ma. drive	
ox Digital Sulpat Lines with 20 ma. arive	
8x High Drive Digital Output Lines with Status LEDs (500 ma. sink)	
Secondary I/O	
Secondary I/O	
1x CAN 2.0B Port	
LPT Port:	
Keypad:	
PS/2:	
Touch:	
Resistive Touch Screen Interface	
Secondary I/O Misc.:	
Graphic LCD interface with WQVGA TFT LCD with Touch	
. Analog on	
Analog on A.D.	
D/A:	
Dimensions Dimensions.	
$4.37 \times 6$ in	
Power Requirements	
5 V	
Typical Current:	
2 A	
Typical Voltage:	
5 V	
<del>~</del> ,	

Environmental

0 C	
High Operating Temperature:	
60 C	
Upper Operating Humidity:	
90%	
Pricing Solvi-200LS-007	
Bare-Bones Carrier Board, with CAN, without PLD & LCD	
\$145.00	
Base Product:	
SoM-200ES	
SoM-200ES-000	
Standard Carrier Board with CAN, PLD & 4.3" LCD	
\$245.00	
Base Product:	
SoM-200ES	
SoM-200ES-001	
Deluxe Carrier Board with Audio, CAN, PLD & 4.3" LCD	
\$295.00	
Base Product:	
SoM-200ES	
Non-Stock NCNR:	
0	
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

Low Operating Temperature:

to +85) \$160.00 Base Product: SoM-3354M

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