

SoM-250ES

PPC Panel PC Open Front

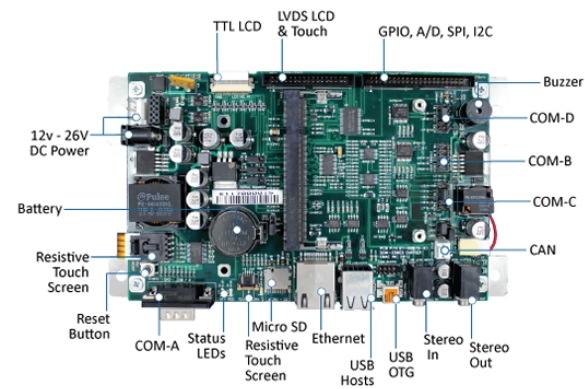
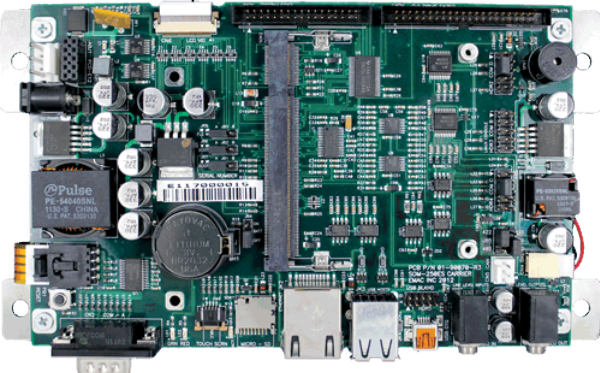
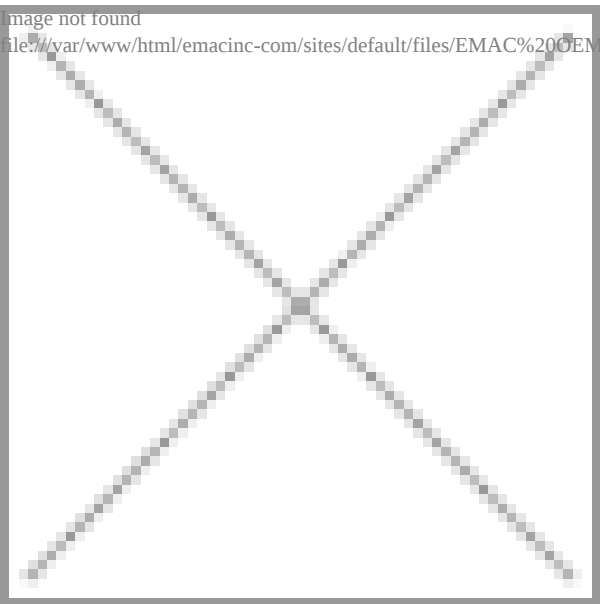


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1x 10/100 BaseT Ethernet with onboard Magnetics and RJ45

3x RS232 Ports and 1x RS232/422/485 Port

22x SoM Specific I/O lines

Resistive Touch Screen Interface

Available with 7" WVGA 800 x 480 Graphic LCD with Touchscreen

Available with 10" WSVGA 1024 X 600 Graphic LCD with Touchscreen

Battery for nonvolatile RAM and Real Time Clock

Micro SDHC/MMC Flash Card Socket

2x USB Host Ports & 1x USB OTG Port

1x I2S Audio port with Line-In/Line-Out

1x Audio Beeper

Timer/Counters and Pulse Width Modulation (PWM) ports

Operating Voltage of 12 to 26 Vdc.

Graphic LCD Interface with optional 2D acceleration & hardware CODECs

System Reset button

Power and Flash Drive Status LEDs

BARE-BONE FEATURES

1x 10/100 BaseT Ethernet with onboard Magnetics and RJ45 Jack

Battery for nonvolatile RAM and Real Time Clock

2x USB Host Ports & 1x USB OTG Port

Micro SDHC/MMC Flash Card Socket

3x RS232 Ports and 1x RS232/422/485 Port

22x SoM Specific I/O Lines

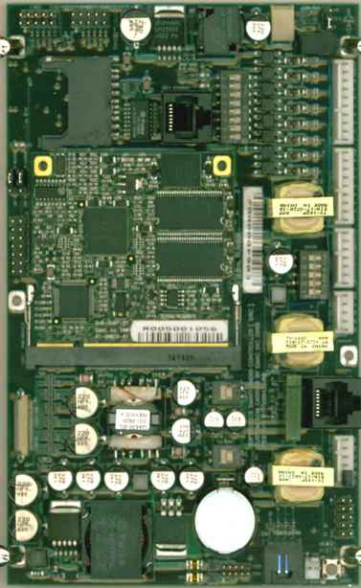
System Reset button

1x I2S Audio port with Line-In/Line Out

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The SoM-250ES is a compact, low-power SoM Carrier/Socket board with a optional 7" WVGA (800 x 480)

or the 10" WSVGA (1024 X 600) 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-250ES is specifically designed for SoMs with Video & USB capability.

The SoM-250ES 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, 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-250ES when coupled with a SoM-9G45/9M10, or SoM-3517 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,

22x SoM Specific I/O Lines (GPIO

A/D

SPI

I2C)

Disk Interface:

Micro-SD Card Slot

Video Out:

Graphic LCD with TTL & LVDS Interfaces with optional 2D acceleration & hardware CODECs

SPI:

1x SPI (3 chip selects)

Audio:

1x I2S Audio port with Line-In/Line-Out

Ethernet:

1x 10/100 BaseT Ethernet with onboard Magnetics and RJ45

USB:

2x USB High Speed Host

1x USB High Speed OTG

Serial Ports:

3x RS232. 1x RS232/422/485

I2C:

1x I2C hardware port

Watchdog:

Secondary I/O

CAN.

1x CAN 2.0B Port

Timers/ Counters/ PWM:

Timer/Counters and Pulse Width Modulation (PWM) ports

LPT Port:

Keypad:

PS/2:

Touch:

7" 800 x 480 Graphic LCD with Touch Screen

Analog on

A/D.

D/A:

Dimensions

Dimensions.

6.55 × 4.15 in

Dimensions Misc.:

7" LCD bracket the dimensions are 7.55" x 4.15" (191mm x 105mm) (the metal mounting tabs add 1" to the width)

Power Requirements

Voltage.

12 V

Typical Current:

500 mA

Typical Voltage:

12 V

Power Misc.:

Power Requirements: Typical <~500mA. @ 12 Vdc including SoM, USB & LCD

(Note: up to 1.0A additional is required if USB Host is providing power to USB devices)

Power Supply Voltage: +12 to +28 Vdc.

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

90%

Pricing

SO-M-250LS-007

Bare-Bones Carrier Board, no LCD

\$199.00
Base Product:
SoM-250ES
SoM-250ES-000
Standard Carrier Board with CAN, Audio, 7" LCD & Touch Screen
\$399.00
Non-Stock
Base Product:
SoM-250ES
SoM-250ES-001
Deluxe Carrier Board with CAN, Audio, 10" LVDS LCD & Touch Screen
\$445.00
Non-Stock
Base Product:
SoM-250ES
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 to +85)
\$160.00
Base Product:
SoM-3354M