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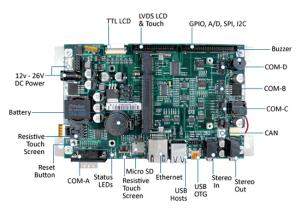
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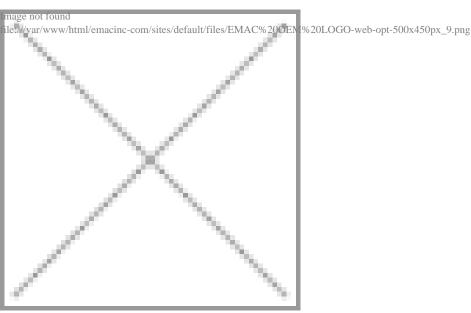
SoM-250ES

PPC Panel PonOpeni Front/sites/default/files/PPC%20Panel%20Open%20Front%20E7%20E10_500px_webopt.png



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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 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 12S Audio port with Line-In/Line Out
- 1x Audio beeper
- Timer/Counters and Pulse Width Modulation (PWM) ports
- Power and Flash Drive Status LEDs



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 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 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_{ν} . D/A: 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 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 Som-2001S-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