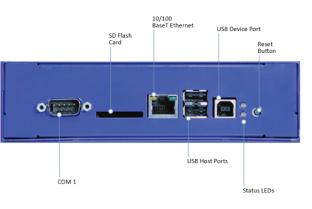


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Source URL: https://www.emacinc.com/content/sib-a5d35-low-power-embedded-server

SIB-A5D35 Low Power Embedded Server







512 MB of LP DDR2 RAM

- 4 GB of eMMC Flash
- 16MB of Serial Data Flash
- 3x RS-232 & 1x RS-232/485/422
- 1x 10/100BaseT Ethernet
- 2x USB 2.0 (Full Speed) Host ports
- 1x USB 2.0 (Full Speed) Device port
- SD/MMC Flash Card Interface
- I2S Audio Port Line-in & Line-out (Optional on Deluxe)
- 2x SPI Ports (3 SPI CS)
- 1x I2C Ports
- 1x CAN Ports
- 24x General Purpose digital (PLD) I/O lines (on Carrier Board)
- 18x GPIO (3.3V) Lines
- 1x SDIO
- 4x channels of 12 bit A/D (0 to 2.5V)
- SD Card Socket with Status LED
- External Reset Button
- Battery backed Real Time Clock
- Timer/Counters/Pulse Width Modulation (PWM) Ports
- 4 Channel 10-bit Analog-to-Digital converter
- Extremely Reliable (No Moving Parts)
- Wall-Mount Power Supply
- 0-70*C Operation temperature (32-158*F). Optional: $-40^{\circ} \sim +85C^{\circ}$
- Operating Humidity: 10% ~ 90% Relative non-condensing
- Supports APM Sleep Mode
- Voltage 5v +/- 10%
- Power (does not include power drawn by any external USB devices)

415mA Typical (~2 Watts)

490mA Max Boot

1.75" ×6.5" ×4.5" (44.5mm × 165mm × 114.3mm)

The EMAC Low-Power Server-In-a-Box (SIB), is a low cost, small footprint, yet powerful Server. The Low-Power SIB utilizes the Atmel ARM Cortex A5 ATSAMA5D35 536Mhz fanless processor allowing it to run Linux and WinCE Operating Systems. Like all SIBs, the Low-Power SIB has no moving parts and features a rugged enclosure design making it an ideal choice for most industrial applications. While also offering APM sleep mode, which allows for low power consumption, while still supporting real-time operating systems (RTOS) such as Xenomai. The Low-Power SIB is just as comfortable in a basement wiring closet as it is on a desktop. The low power requirements of the LP-SIB also means low heat generation and lends itself ideal for battery operated or backed-up systems. Right out of the box, the LP-SIB is configured for Ethernet, serial IP, serial terminal, and raw serial connections. Other devices, including PPP modem links, may be added and configured by the user. Purchase a EMAC SIB and you should be up, running and building applications the first day. Click Here for more information on EMAC's Linux for SIBs.

Specifications Processor. Atmel ARM Cortex A5 ATSAMA5D35 Clock Speed: 536 MHz Real Time Clock:

Memory RAIVI 1 ype. DDR2 Primary Flash: 16MB of Serial Data Flash Secondary Flash: 4 GB of eMMC Flash Gi iO. 18x 3.3V I/O lines SDIO: 1x SDIO SD Port Audio: I2S Audio Port Line-in and Line-out (Optional on deluxe option) Ethernet: 1x 10/100 BaseT Ethernet USB: 2x USB 2.0 Host 1x USB 2.0 Device Serial Ports: 3x RS232 1x RS232/422/485 Watchdog: Primary I/O Misc.: 24x General Purpose digital (PLD) I/O lines (on Carrier Board)

8x GPIO Lines are High Drive Digital Output Lines with Status LEDs (500 ma. sink)

8x Digital Input lines

Cruy. 1x CAN port Timers/ Counters/ PWM: Timer/Counters and Pulse Width Modulation (PWM) Port LPT Port: Keypad: PS/2: Secondary I/O Misc.: 2x SPI Ports (3 SPI CS) 2x I2C Ports

Analog on A/D. A/D Channels: 4 D/A: Analog Misc.: 4x channels of 12-bit A/D (0 to 2.5V on deluxe option)

Dimensions Dimensions. 1.75 × 6.5 × 4.45 in Weight: 1 lb Typower Requirements Typical Current. 415 mA Typical Voltage: 5 V Max Boot Current: 490 mA Power Misc.: Voltage 5v +/- 10% Power (does not include power drawn by any external USB devices)

Supports APM Sleep Mode

Environmental Low Operating Temperature: 0 C High Operating Temperature: 70 C Upper Operating Humidity: 90% Environmental Misc.: Optional: -40° ~ +85C° Operating Humidity: 10% ~ 90% Relative non-condensing SIB-A5D35-000-R

SIB-A5D35 Atmel ARM Cortex A5 ATSAMA5D35 536Mhz, 512MB LP DDR2 RAM, 4GB eMMC flash, 5x COM, 2x USB2, 1x LAN, 5v PS.

\$375.00

Order:

0

Parent Product:

SIB-A5D35-031-R

SIB-A5D35 Atmel ARM Cortex A5 ATSAMA5D35 536Mhz, 512MB LP DDR2 RAM, 4GB eMMC flash, 5x COM, 2x USB2, A/D, D/A, Audio, 1x LAN, 5v PS.

\$445.00

Order:

0

Parent Product:

Disk Interface: SD/MMC Flash Card Interface

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