

IPAC 9x25

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IPAC 9x25

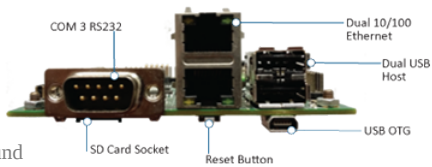
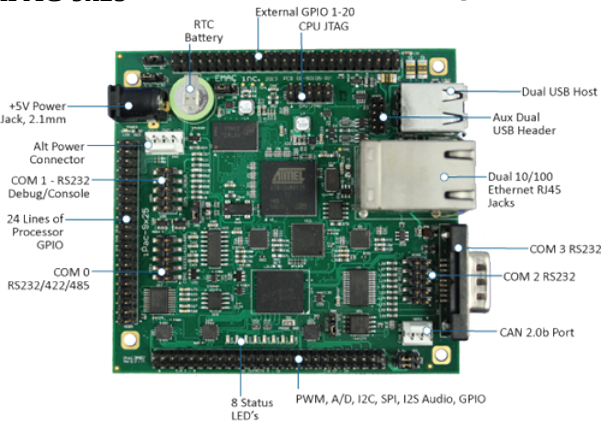


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CPU: Atmel AT91SAM9x25

ARM926EJ-S 400 Mhz Processor with 133 Mhz System Bus and JTAG debugger capability.

MEMORY: 16MB serial Flash, 128MB DDR2 RAM and 4GB eMMC.

DIGITAL I/O: 20 x General Purpose SAM9x25 Digital I/O lines, 16x SPI I/O Expander Based Digital I/O lines, and 8x High Drive Digital Outputs.

PWM: Up to 4x 16-bit PWMs.

ANALOG INPUTS: Up to 7x channels of 10 bit A/D 0 – 2.5 volts.

COMMUNICATION: 4x Serial Ports (3x RS232, 1x RS232/422/485) and 1x CAN Bus.

ETHERNET: 2x 10/100 BaseT Ethernet with RJ45.

USB: 2x USB 2.0 High-Speed Host Port, 1x USB 2.0 Full-Speed Host Port and 1x USB 2.0 High-Speed Device Port.

TIME: Battery-Backed Real-Time Clock/Calendar.

FLASH DISK: MMC/uSD Flash Disk socket.

RESET: External Reset Button provision.

INTERFACES: SAM9x25 SPI, I2C and I2S.

FORM FACTOR: PC/104 Module with Dimensions of 96 mm x 90 mm (3.77" x 3.54")

RoHS 2 (2011) compliance

EMAC, Inc.; a leader in compact low power single board computer design and manufacturing has created the iPAC-9X25. Made in the USA this industrial strength embedded single board computer is based on Atmel AT91SAM9X25 Processor. It has an industrial temperature range of -40C to 85C and utilizes 4GB of eMMC Flash, 16MB of Serial Data Flash (for boot), and 128 MB of DDR RAM. The iPac-9X25 is a web-enabled microcontroller with the ability to run an embedded server and to display the current monitored or logged data. The web connection is available via two 10/100 BaseT Ethernet ports or 802.11 wireless wifi networking when using the proper Linux modules and adapters. This Microcontroller has all connectors brought out as headers on a board and has the same footprint of a standard PC/104 module at 3.77" x 3.54". The iPAC-9X25 is perfectly suited for Industrial Temperature Embedded Data Acquisition and Control applications. The iPAC 9X25 has one (1) RS232 serial port with full handshake (RTS/CTS/DTR/DSR/RI), two (2) RS232 serial ports (TX and RX only), one (1) RS232/422/485 serial port with RTS/CTS handshake, two (2) 10/100 BaseT Ethernet ports, two (2) USB 2.0 Host ports, and one (1) USB Device port. The board has 7 channels of 12 bit A/D (0 to 3.3 volt) and an internal real-time clock/calendar with battery backup. It also includes 21 GPIO (3.3 V) lines on header, 8 high drive open collector dedicated digital output lines with configurable voltage tolerance, 16 GPIO (3.3V) on header, 2 PWM I/O lines with additional 4 PWN lines shared with A/D. The iPAC-9x25 has 5 Synchronous Serial I/O lines (I2S), 5 SPI lines (2 SPI CS), I2C Bus, CAN Bus, a micro SD socket, an external Reset Button provisions and red Power and Green status LEDs.

Specifications

SLC type.

Single Board Computer Microcontroller
Processor
Processor.

Embedded Atmel AT91SAM9X25

Clock Speed:

400 MHz

Real Time Clock:

Processor Misc.:

133 Mhz System Bus and JTAG debugger capability.

Memory

Primary Flash:

4GB of eMMC

Secondary Flash:

16MB of Serial Data Flash

Primary I/O GPIO.

20x General Purpose SAM9X25 Digital I/O lines

16x SPI I/O Expander Based Digital I/O

and 8x High Drive Digital Outputs. ***Requires Qty 2 Terminal Boards to utilize all GPIO***

Disk Interface:

Micro SD

Ethernet:

2x 10/100 Base-T with RJ45

USB:

2x USB 2.0 High-speed Host Ports

1x USB Full-Speed Host and 1x USB 2.0 High-speed Device Port

Serial Ports:

3x RS232

1x RS232/422/485

Watchdog:

Primary I/O Misc.:

1x RS232 serial port with full handshaking (RTS/CTS/DTR/DSR/RI)

2x RS232 serial ports (TX and RX only)

1x RS232/422/485 serial port with RTS/CTS handshake

External Reset Button provision

Secondary I/O
Timers/ Counters/ PWM:

Battery-Backed Real-Time Clock/Calendar

Up to 4 16-bit PWMs

LPT Port:

Keypad:

PS/2:

Analog on
A/D:

A/D Channels:

7

A/D Channels:

7 channel, 10-bit

A/D Resolution:

10 bit

D/A:

D/A Channels:

none

Dimensions
Dimensions:

3.77 × 3.54 in

Form Factor:

PC/104 SBC sized module

Power Requirements
Voltage:

5 V

Environmental
Low Operating Temperature:

-40 C

High Operating Temperature:

85 C

Pricing
IPAC-9x25-000

400 MHz, 128MB DDR2, 4GB of eMMC and 16MB Serial Data Flash

Stock

\$198.00

Order:

0

Parent Product:

Terminal Boards:

PCD-39E00-000

Screw Terminal Board Kit containing 40 pin and 50 pin connection cables ***See Product GPIO***

\$50.00

