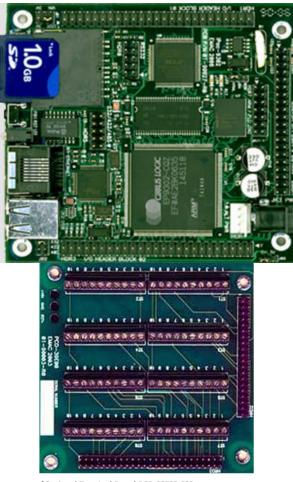


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iPac-9302



*Optional Terminal Board PCD-39E00-000

Cirrus Logic EP9302 ARM9 200 Mhz Processor with 100 Mhz System Bus

MaverickCrunch Hardware Floating Point Math Engine

1 RS232 Serial Port with handshake

1 RS232/422/485 configurable Serial Port

1 10/100 Base-T Ethernet port

2 USB 2.0 Host Ports (Full Speed)

5 channels of 12 bit A/D (Ground to 3.3 V input)

Battery Backed Real Time clock/calendar

48 Digital I/O lines on two 50 pin I/O rack compatible headers designated as follows:

- o 16 Processor 3.3V I/O lines configurable as Inputs or Outputs
- ∘ 16 PLD 3.3V input lines (5V tolerant)
- o 8 PLD 3.3V output lines (25 ma. drive)

 8 PLD High Drive Open Collector output lines (500 ma. sink) 9 Synchronous Serial I/O lines (SPI/AC97/I2S) 3 PWM I/O lines (2 in PLD) Reset Button and Status LED 16 MB of External Flash 16 MB of External SDRAM 256K Bytes of EEPROM MMC/SDHC hot-swap socket Watchdog Timer +5 Volt only input supply voltage PC/104 Dimensions of 3.77" x 3.54" EMAC has created the iPac-9302, an inexpensive, feature packed embedded Single Board Computer (SBC) based on the Cirrus EP9302 processor. This ARM9 based board has features, similar to our other Microcontrollers, A/D, PWM, Digital I/O, Serial, USB, and Ethernet. The iPac-9302 is a web enabled microcontroller device offering the ability to run an embedded server to display it's current monitored or logged data. This web connection can be via standard wired 802.3u 10/100 BaseT Fast Ethernet or 802.11 wireless wifi networking with the proper linux modules and adapters. This Microcontroller has all connectors brought out as headers on a board that is same footprint of a standard PC/104 module at 3.77" x 3.54". While slightly larger than our SoM Microcontroller offerings, this Industrial Strength SBC is perfectly suited for just about any Embedded Data Acquisition and Control application. Also available is an optional Screw Terminal board(PCD-39E00-000) for the iPac (shown to the right) that is stackable, providing numerous I/O points with screw termination, in a very small package. Two Screw Terminal boards are required to accommodate all of the iPac I/O. The resident flash on the iPac can be programmed via it's serial bootloader firmware over the RS232 com port or via it's JTAG port. Software can be written with Microsoft's .NET Micro Framework, Windows CE 6.0 or Linux (Open Embedded). On the Linux side EMAC provides a Free Eclipse IDE that is preintegrated to provide everything the user needs for developing iPac 9302 applications. All the compiling, converting debugging, and downloading inherent to iPac 9302 development can be done from one easy to use high level interface. The distribution provides an SDK for the EMAC iPac 9302 which contains source examples for the Ethernet, USB, Digital I/O ports, A/D, PWM, SPI, SD/MMC. The EMAC Eclipse IDE is a powerful, yet flexible Integrated Development Environment for the iPac 9302 and even features SVN version control support. For more information of EMAC's Eclipse based Development Environment click here. The iPac 9302 can use most of the EMAC's standard Linux Modules including the Modbus module. For a listing of these module see our Embedded Linux Operating Systems Page. Just Write It and Dun It! Specifications Sbc Type. Single Doord Computer Microcontroller Processor Processor. Cirrus Logic EP9302 ARM9 Clock Speed: 200 MHz Real Time Clock:

Memory Primary reash: 16 MB external Memory Misc.:

Dimensions Dimensions. 3.8×3.5 in

Form Factor:

iPac

Power Requirements

5 V

Typical Current:

450 mA

Environmental Low Operating Temperature:

0 C

Upper Operating Humidity:
90%
Pricing 1302-01-01013
IPAC 9302 IPAC 9302 W/ 16MB FLASH & RAM
\$160.00
i302-01-02013
IPAC 9302 IPAC 9302 W/ 32MB FLASH & RAM
\$180.00
i302-01-03013
IPAC 9302 IPAC 9302 W/ 64MB FLASH & RAM
\$225.00
Terminal Boards:
PCD-39E00-000
Screw Terminal Board Kit containing 40 pin and 50 pin connection cables ***See Product GPIO**
\$50.00
Cables & Adapters:
CAB-35-003-1
6" DB9 TO DB9 NULL MODEM EXTENSION CABLE
\$10.00
CAB-35-004-1
6" 10 PIN HEADER TO DB9 SERIAL ADAPTER CABLE
\$5.00
PER-ADP-00020
JTAG ADAPTER BOARD
\$10.00
Power Supply:
PER-PWR-00032
5V @ 2.5A PS (110V @ 60 Hz US)
\$20.00
PER-PWR-00033
5V @ 3.2A PS (100-220V @ 47-63 Hz Intl.)
\$28.00
Source URL: https://www.emacinc.com/content/ipac-9302

High Operating Temperature:

70 C