

PPC-07-5D36 ARM HMI PC

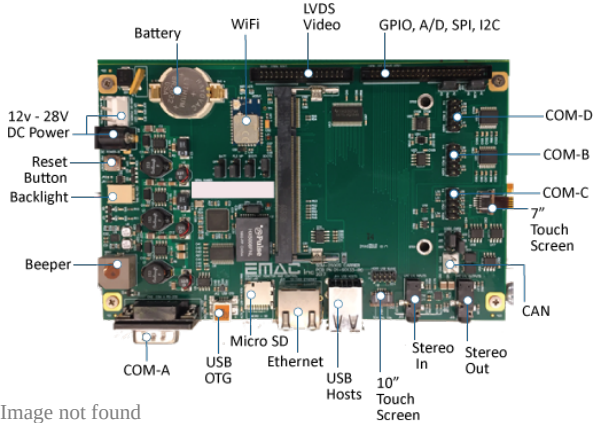


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Embedded Atmel ARM Cortex A5 ATSAMA5D36

Up to 512MB DDR3L of SDRAM

4GB of eMMC Flash

16MB serial data flash

Inexpensive Open-Frame Design

10/100 BaseT Ethernet with on-board PHY

Wireless 802.11 b/g/n; Bluegiga [WF111-E] onboard (WiFi Antenna and Cable Optional)

Bluetooth (optional)

3 RS232 & 1 RS232/422/485 Port

2 USB 2.0 (High Speed) Host port

1 USB 2.0 (High Speed) OTG port

Battery backed Real Time Clock

1 Micro-SD Flash Card Socket

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

Timer/Counters and Pulse Width Modulation (PWM) ports

4 Channel 10-bit Analog-to-Digital converter

Operating Voltage of 12 to 28 Vdc.

Graphic LCD Interface with optional 2D acceleration & hardware CODECs

WVGA (800 x 480) Resolution with LED Backlight

LVDS Touch Screen Interface and Software Controlled Backlight On/Off & Brightness

Luminance (800 Nits)

JTAG for debug, including real-time trace

The PPC-07-5D36 is an out of the box Compact Panel PC solution based on the Atmel SAMA5D36 processor. This system comes ready to run with the Operating System installed on the on-board flash. Apply power and watch either the Linux X Windows or Linux Qt User Interface appear on the vivid color LCD. Interact with the PPC-07-5D36 using the responsive integrated touchscreen. Everything works out of the box, allowing you to concentrate on your application, rather than building and configuring device drivers. Just Write-It and Run-It. Use EMAC's Qt development tools to quickly develop and debug your HMI application, setup an M2M network, connect some IOT devices and/or configure the Digital inputs and outputs to provide and receive information to other devices. Then have the ability to access and control the system both locally and anywhere in the world via the internet.

Specifications

Panel PC type:

Open Frame PPC

Processor

Processor:

Atmel ARM Cortex A5 ATSAMA5D36

Clock Speed:

536 MHz

Real Time Clock:

Memory

Primary Flash:

4GB eMMC

Secondary Flash:

16MB serial data flash/ SDIO SDHC/MMC interface up to 32+ GB Flash Disk

Primary I/O

GPIO:

16x programmable 3.3V I/O lines

Audio:

I2S Synchronous Serial Controller with Line In/Out

Ethernet:

10/100/1000 BaseT Ethernet

USB:

2x USB 2.0 HS Host and 1x USB 2.0 HS OTG Ports

Serial Ports:

3x RS-232 with handshaking

1x RS-232/422/485 with Auto RS485

high-speed SPI with chip selects

I2C

Watchdog:

Secondary I/O

CAN:

1x CAN 2.0B Port

LPT Port:

Keypad:

PS/2:

Touch:

12-Bit 4-wire Analog Resistive Touch Screen

Dimensions
Analog on A/D.

A/D Channels:

4

A/D Resolution:

12 bit (0 to 3.3V)

D/A:

Dimensions
Dimensions.

7.55 × 4.15 × 1.5 in

Weight:

1.06 lb

Power Requirements
Voltage.

12 V

Power Misc.:

Power Supply Voltage: +12 to +28 VDC.

Typical Running Current Consumption: 7W

Environmental
Low Operating Temperature:

-20 C

High Operating Temperature:

70 C

Environmental Misc.:

*Note: Operating temperature limited by LCD

Pricing
Product variations:

PPC-07-5D36-1R

7" Open Frame Panel PC w/ Touchscreen, SoM-250GS & SoM-A5D36. 536MHz, 512MB RAM, 4GB eMMC Flash, microSD, 4x COM,

2x USB2, GbE LAN, WiFi, LVDS 7" LCD

\$525.00

Order:

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Parent Product:

Disk Interface:

Micro-SD Card Slot