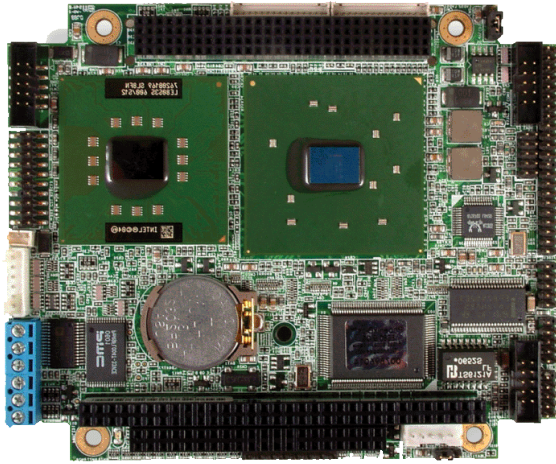


Em104P-i8523



Intel Ultra Low Voltage Embedded Celeron M or Pentium M Processor

200-pin DDR SO-DIMM up to 1GB DDR SDRAM

Support of both CRT and LCD

Intel 82562ET 10/100 Base-T Ethernet

4 x USB Ports, 2 x Serial Ports

Supports PC/104 and PC/104+ Interface

The Em104P-i8523 utilizes an onboard Intel Ultra-Low Voltage Fanless Celeron M 600MHz or Pentium M 1.4Ghz CPU, which makes the Em104P-i8523 one of the smallest and most powerful SBCs on the market. The Em104P-i8523 gives developers a low power, high performing and scalable platform with superior graphics capabilities that can fit into the tightest places. PC/104+ I/O expansion allows features to be quickly added using any one of EMAC's many PC/104 or PC/104+ expansion modules. The Em104P-i8523 is perfect for applications such as military and industrial automation where uncompromised performance in a limited space is required. The Em104P-i8523 provides the quality features available on SBC boards several times its size. The Intel 852GM Extreme Graphics2 engine maintains excellent graphics performance and provides CRT/LCD support up to 2048 x 1536. SDRAM memory capacity up to 1GB is large enough to accommodate the latest operating systems, including Linux, RTAI Real-Time Linux, Microsoft Windows XP/XPE, Windows CE.net, Windows Vista and DOS 6.22. Four USB 2.0 ports are available as well as one parallel port (SPP/EPP/ECP modes) which is shared with a Floppy Disk Drive port, and 2 serial ports (RS-232). With its industrial grade reliability, the Em104P-i8523 can operate continuously at temperatures up to 104° F (40° C) without a fan and up to 140° F (60° C) with a fan. The numerous features provide an ideal price/performance solution for high-end commercial and industrial applications where stability and reliability (no moving parts) are essential.

Specifications

SLC type.

EMAC Single Board Computers

Processor

Processor.

Intel Ultra Low Voltage Embedded Celeron M

Clock Speed:

600 MHz

Real Time Clock:

Processor Misc.:

Optional Processor : Pentium M 1.4 GHz processor

Chipset: Intel 852GM + ICH4

Memory BIOS/Bootloader:

Phoenix-Award PnP Flash BIOS

Memory Misc.:

L2 Cache: 2 MByte (Max.)

Primary I/O Disk interface:

FDD

Enhanced IDE (UDMA 33)

Audio:

ALC655 AC97 Codec (Mic-In/Line-In/Line-Out)

Ethernet:

Intel 82562ET 10/100 Ethernet

USB:

4x USB 2.0

Serial Ports:

1x Parallel SPP/EPP/ECP

1x RS232

1x RS232/485

Watchdog:

Secondary I/O L1 I/O:

Keypad:

PS/2:

Analog on A/D:

D/A:

Dimensions Dimensions:

4.6 × 3.8 in

Form Factor:

PC/104 Extended

Power Requirements Typical Current:

3.22 A

Typical Voltage:

5 V

Environmental Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Pricing Elmu4r-18523VL/P

PC/104+ 1.4GHZ PENTIUM M AUDIO/VIDEO/LAN

\$0.00

EM104P-I8523VL/C

PC/104+ 600MHZ CELERON M AUDIO/VIDEO/LAN

\$0.00

Wiring Kits:

CBK-13-8523-00

WIRING KIT FOR EM104P-I8523VL

\$0.00

Source URL: <https://www.emacinc.com/content/em104p-i8523>