EMAC, inc.
EQUIPMENT MONITOR AND CONTROL
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PCM-4386

Embedded Intel® Celeron® M 600 MHz / 1.0 GHz

EPIC form factor

PC/104+ bus expansion

SODIMM socket supports up to 1 GB DDR SDRAM

CRT + LVDS dual independent display support

Supports 4 COM and 6 USB 2.0 ports

Dual 10/100 Mbps PCI Ethernet interface

8 General Purpose I/O (GPIO) Lines

Supports CompactFlash

Temperature ranging from -20°C to 80°C

The PCM-4386 is an EPIC form factor embedded CPU board for industrial computing. The EPIC standard defines a 4.53" x 6.50" footprint, which sits between the smaller PC/104 and the larger EBX form factor. The PCM-4386 can undergo a Extended Temperature Testing (ETT) process, which guarantees reliable operation in extreme temperatures ranging up to -20°C to 80°C and can resist the most severe shock and vibration. SBCs that pass the ETT are guaranteed for thermal reliability and quality. The Standard PCM-4386 uses a fanless 600 MHz Intel® Celeron® M processor and up to 1 GB DDR SDRAM memory that is a perfect match for low-power economical applications. It does not require active cooling; making it an ideal, cost-conscious solution for transportation and automation control in remote and severe locations that require reliability.The PCM-4386 provides PC/104+ expansion, allowing for scalable ISA and PCI modular expansion, which

are designed for high shock and vibration. Additional communication, data acquisition, and peripheral PC/104 & PC/104+ modules can be easily stacked on to the PCM-4386. This SBC offers dual channel LVDS panel support up to UXGA (1,600 x 1,200) panel resolution, a popular display solution for POS terminal applications. The EPIC specification defines a unique external I/O coastline for easy access and expansion and the flexibility to implement internal I/O connectors as either pin headers or box header connectors.The PCM-4386 is a PC/104+ embedded SBC in the EPIC form factor which offers severe shock and vibration resistance, with extreme temperature reliability. It provides multiple I/O options and ultimate scalability, making it ideal for transportation, military, and automation applications in the most severe and harsh environments.

Specifications

SBC Type:

EOL Single Board Computers

Processor

Processor:

Embedded Intel Pentium M

Real Time Clock:

Memory

BIOS/ Bootloader:

AWARD 4 MB Flash BIOS

Primary Flash:

1x CompactFlash™ card Type I/II

Memory Misc.:

L2 Cache: 512 KB

Primary I/O

GPIO:

8x GPIO

Disk Interface:

1x EIDE (UDMA 33)

Audio:

AC97 (line-in/Line-out)

Ethernet:

Dual Intel 82551ER 10/100 Base-T with IEEE 802.3u interface

USB:

6x USB 1.1/2.0 compliant ports

Serial Ports:

3x RS-232

1x RS-232/422/485

Watchdog:

Primary I/O Misc.:

Parallel Port: 1 Parallel Port supports SPP/EPP/ECP mode

Secondary I/O

LPT Port:

Keypad:

PS/2:

Analog on

A/D:

D/A:

Dimensions

Dimensions:

4.5 × 6.5 in

Weight:

0.35 kg

Form Factor:

EPIC

Power Requirements

Voltage:
5 V
Typical Current:
2.62 A
Typical Voltage:
5 V

Environmental

Low Operating Temperature:
0 C
High Operating Temperature:
60 C
Upper Operating Humidity:
90%

Pricing

PCM-4386F-M
CELERON M 600 MHZ SBC DUAL 10/100 LAN
$328.00
Parent Product:

PCM-4386F-S
CELERON M 1.0 GHZ SBC DUAL 10/100 LAN
$327.00
Parent Product:

PCM-4386Z-S
CELERON M 1.0 GHZ DUAL 10/100 LAN, WIDE TEMP
$427.00
Parent Product:

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