

PCM-53E52



Compact size (145 mm x 102 mm). Fits in the space of a 3½" HDD

ISA and PCI bus expansion with onboard PC/104+ connector

Onboard ELAN SC520 133MHz embedded microprocessor

Supports M-Systems' DiskOnChip® 2000 Flash memory

Onboard 10/100 Base-T Ethernet interface

Onboard 32MB SDRAM memory

Onboard mini-DIN PS/2 keyboard/ mouse connector

Built-in Enhanced IDE hard disk drive interface, floppy disk interface and parallel port

Four serial ports: three RS-232 and one RS-232/422/485; on-board DB-9 connector is designated as COM1

Single +5 V power supply

Flexible OEM/ODM design

The PCM-53E52 is a compact Half-EBX board with PC/104+, SSD, Ethernet, and four COM ports. Unlike other compact Half-EBX boards, the PCM-53E52 has an optional Analog and Digital I/O Daughter Board, allowing for data acquisition and greater flexibility. The PCM-53E52 features a low power AMD® ELAN-SC520 133 MHz processor (no fan required, 486/586 class processor roughly equivalent to a P120). This compact Half-EBX board has on board, 32MB of SDRAM memory standard. A 64MB and 128MB memory upgrade option is also available as is a DiskOnChip® 2000 (DOC) solid state flash disk (no moving parts). The PCM-53E52 can be connected onto a network

using the Realtek™ RTL8139C 10/100Base-T Ethernet controller and onboard RJ-45 connector. In addition, the PC/104+ connectors provide both ISA and PCI connectivity. The PCM-53E52 offers three RS-232 serial ports, one RS-232/422/485 serial port, and a parallel port that supports SPP/EPP/ECP parallel modes. This board includes a mini-DIN keyboard/mouse connector, an onboard 34-pin FDD interface that supports two floppy disk drives, and an onboard 44-pin EIDE interface that supports two EIDE devices. The PCM-53E52 is 5.75" in length and 4" wide, making it a great fit for harsh environment and limited-space applications.

Specifications

SLC type.

486 Single Board Computers

Processor

Processor.

Onboard ELAN SC520

Clock Speed:

133 MHz

Real Time Clock:

Memory

BIOS/ Bootloader:

General Software

Memory Misc.:

Memory Optional: 64MB and 128MB SDRAM

Solid State Disk: Up to 1 GB Flash memory

Primary I/O

Disk interface.

2x EIDE

Ethernet:

10/100 Base-T Ethernet Realtek™ RTL8139C with on-Board RJ-45 connector

Serial Ports:

3x RS-232

1x RS-232/422/485

Watchdog:

Primary I/O Misc.:

FDD interface: Supports up to 2x FDDs

- 5.25" (360KB and 1.2MB) and/or
- 3.5" (1.44MB and 2.88MB)

Parallel port: 1x parallel port supports SPP/EPP/ECP parallel modes

I/O Daughter Board Option

GP I/O Lines

A/D and D/A

CAN 2.0B Port

RS-232 Serial Port

Supports Keypads and Character LCD Displays

Secondary I/O

LPT Port:

Keypad:

PS/2:

Analog on
A/D.

D/A:

Dimensions
Dimensions:

5.7 × 4 in

Weight:

170 g

Form Factor:

Half EBX

Power Requirements
Voltage:

5 V

Typical Current:

1.5 mA

Typical Voltage:

5 V

Environmental
Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Pricing
PCM-53E52-010

SC520-133 SBC w/ 32MB SDRAM

\$320.00

Parent Product:

PCM-53E52-020

SC520-133 SBC w/ 64MB SDRAM

\$340.00

Parent Product:

PCM-53E52-030

SC520-133 SBC w/ 128MB SDRAM

\$0.00

Keypads:

E020-25

12 KEY MEM TELEPHONE STYLE KEYPAD

\$25.00

E020-21

16 KEY MEMBRANE HEX STYLE KEYPAD

\$30.00

Terminal Boards:

PCD-E12-0000

I/O Daughter Board

\$99.00

PCD-E12-0100

w/12 bit A/D Converter

\$159.00

PCD-E12-0300

w/12 bit A/D & 12 bit D/A

\$199.00

Displays:

E060-15

20 CHAR. X 2 LINE LCD DISPLAY

\$49.00

E060-16

20 CHAR. X 2 LINE LCD BACKLIT DISPLAY

\$65.00

E060-17

20 X 2 VF Display

\$135.00

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