PC-Based

Vol. 81

EMBEDDED COMPUTER

Embedded PC for Living Automation



- 5¼" Biscuit PCs
- 3.5" Biscuit PCs
- POS Control Boards
- Slot PC Cards
- PC/104 Modules
- Solid State Disks

1997 EE Product News Products Of The Year Award

ISO-9001 Certified

ISO-14001 Certified

CE

ADVANTECH
Embedded PC Division

5¼" Biscuit PCs

The Most Powerful Multimedia SBC

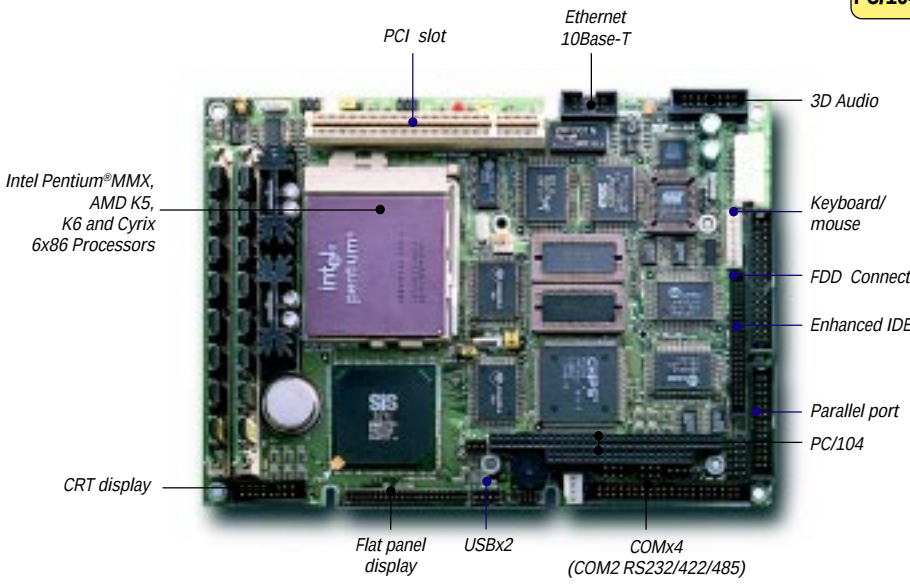
PCM-5862/L

Pentium® MMX SBC with VGA/LCD, Ethernet, and Audio

MMX

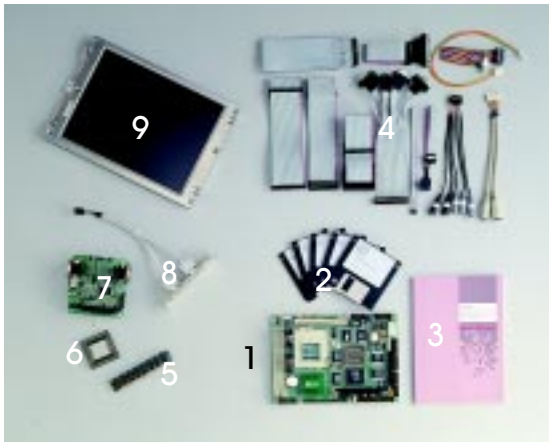
PCI

PC/104



203 mm x 146 mm(8" x 5.75")

Accessories



Standard

1. PCM-5862/L Pentium® MMX Single Board Computer
2. Utilities and Driver Disks
3. User Manual

Optional

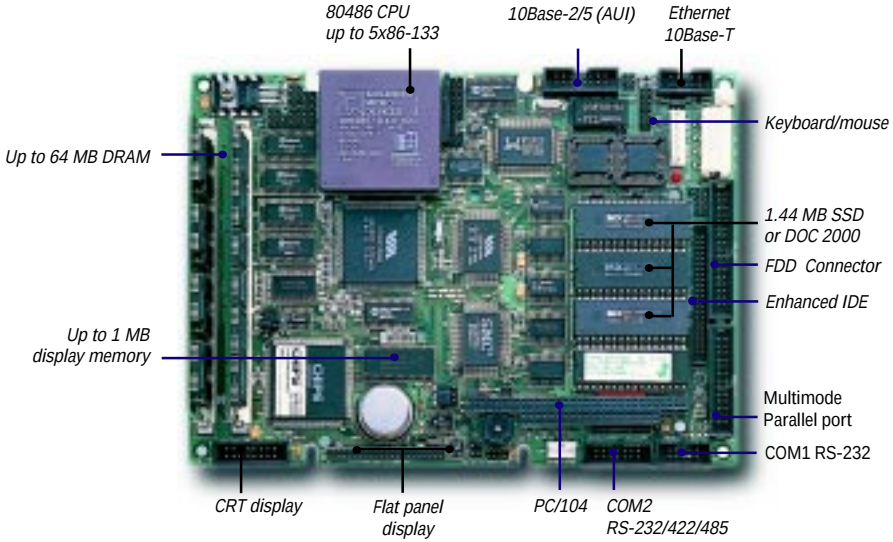
4. PCM-10586-2000 Installation cable kit
5. SIMM Module
6. CPU
7. PC/104 Expansion Module
8. USB Cable
9. LCD Panel Module including Converter

PCM-4862

486 SBC with VGA/LCD, Ethernet, and SSD

5X86

PC/104



203 mm x 146 mm(8" x 5.75")

Ordering Information

PCM-5862-0000	Pentium® MMX SBC with VGA/LCD, Ethernet and Audio
PCM-5862-02A1	Pentium® MMX SBC with 2 MB VGA/LCD, Ethernet and Audio
PCM-5862L-00A1	Pentium® MMX SBC with VGA/LCD and Ethernet
PCM-5862L-02A1	Pentium® MMX SBC with 2 MB VGA/LCD and Ethernet
PCM-10586-2000	Installation Wiring Kit for PCM-5862
PCM-4862-00A3	486 SBC with VGA/LCD, Ethernet and SSD
PCM-10586-1000	Installation Wiring Kit for PCM-4862/5860
PCM-10486-2000	PC/104 to ISA Bus Adapter for PCM-4862
PCM-5860-0000	Pentium® SBC with VGA/LCD, Ethernet and PCI Expansion Slot

3.5” Biscuit PCs

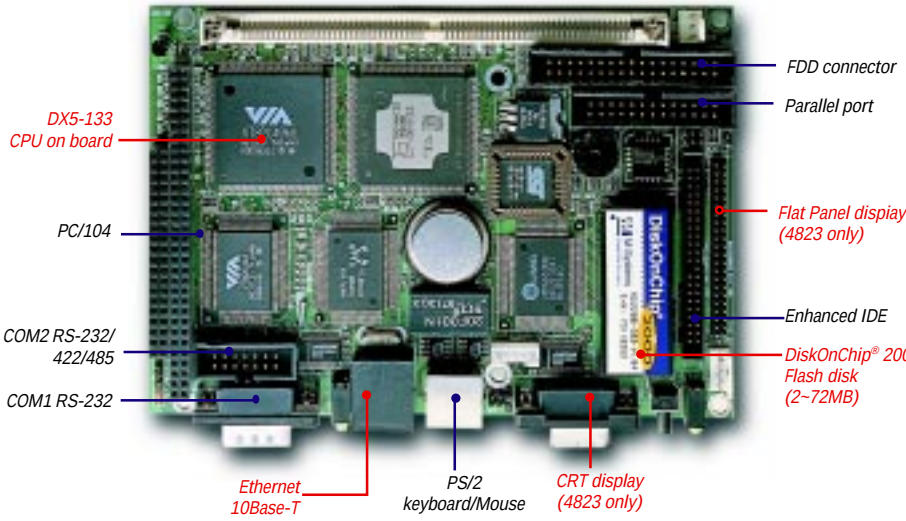
The Palm-size Embedded SBC with Full PC Features

PCM-4823/L

486 SBC with VGA/LCD and Ethernet

5X86

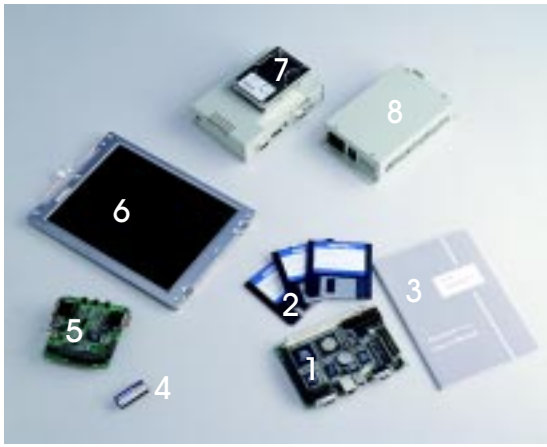
PC/104



145 mm x 102 mm(5.7” x 4”)

Accessories





Standard

1. PCM-4823/L 5x86 Single Board Computer
2. Utilities and Driver Disks
3. User Manual

Optional

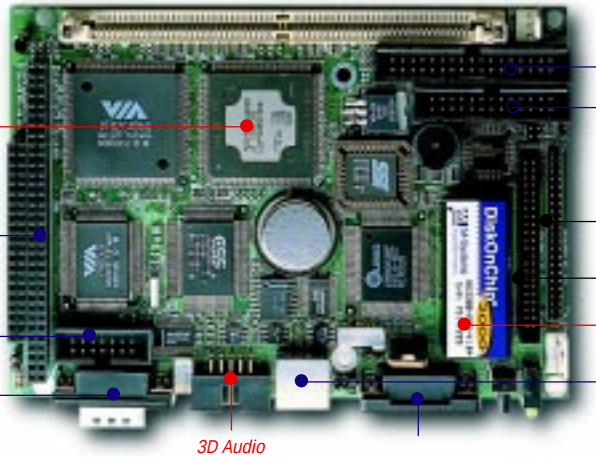
4. DiskOnChip® 2000 (2~72MB)
5. PC/104 Expansion Module
6. LCD Panel Module including Converter
7. MBPC-200 Mini Box for 3.5¨ Biscuit
8. PS-50A Power Module for MBPC-200

PCM-4825/L

486 SBC with VGA/LCD and Audio

5x86

PC/104



145 mm x 102 mm(5.7" x 4")

Ordering Information

PCM-4823-00A1	486 SBC with VGA/LCD and Ethernet
PCM-4823L-60A1	486 SBC with Ethernet
PCM-4825-00A1	486 SBC with VGA/LCD and Audio
PCM-4825L-00A1	486 SBC with VGA/LCD
PCM-4824-0000	486 SBC with VGA/LCD
PCM-4822-0000	486 SBC with Etnernet
PCM-4820-0000	486 Single Board Computer
PCM-3864-0000	386 SBC with VGA/LCD Interface
PCM-3860-0000	386 Single Board Computer
PCM-3920-0000	PC/104 Expansion Carrier Module
PCM-3920V-0000	PC/104 Expansion Carrier Module w/ VGA



MBPC-201	MicroBox Biscuit PC Chassis w/ VGA for (PCM-3864, 4823/25)
MBPC-200/4825	486 MicroBox PC with PCM-4825
MBPC-200/4825L	486 Micro Box PC with PCM-4825L
MBPC-200/4824	486 MicroBox PC with PCM-4824
MBPC-200/4823	486 MicroBox PC with PCM-4823
MBPC-200/4823L	486 MicroBox PC with PCM-4823L
MBPC-200/4822	486 MicroBox PC with PCM-4822
MBPC-200/4820	486 MicroBox PC with PCM-4820
MBPC-200/3864	386 MicroBox PC with VGA/LCD Interface
MBPC-200/3860	386 MicroBox PC
MBPC-200-00XX	MicroBox Chassis for 3.5" Biscuit
PS-50A	50w AC Power for MBPC-200

POS Control Boards

Various Performance Level to Fit Your Application & Budget



Advantech's POS control board series is designed specifically for the POS and related multimedia applications that require array of I/O connections at an affordable price. All POS control boards follow the commercial All-In-One WD/LPX form factor with over 50% of required IOs directly accessible from the rear. This allows for easy OEM system integration as well as easy adaptability to lower cost commercial chassis.

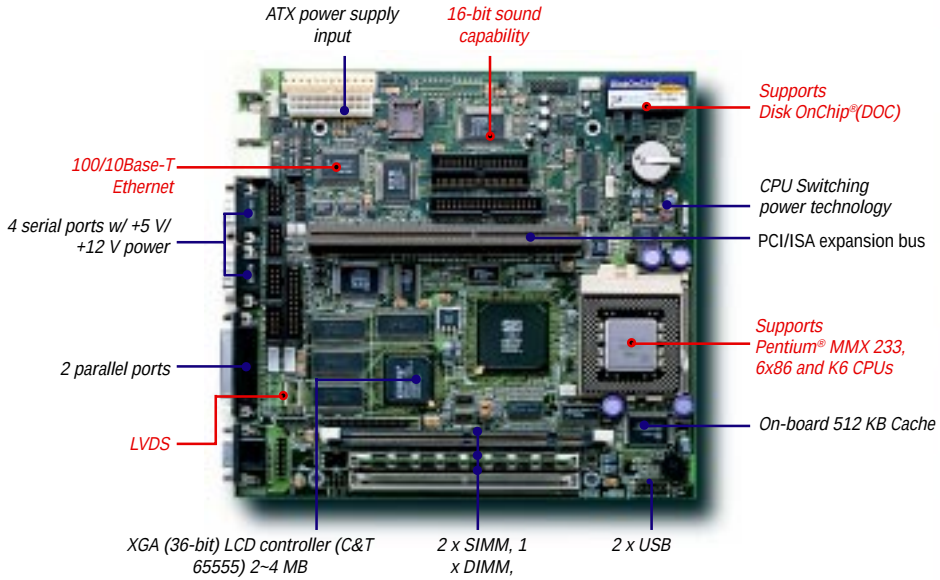
Retaining Advantech's industrial grade performance, the POS control boards starts with POS-460 at 486 entry level and moves to POS-560 supporting up to 233Mhz 586 MMX CPUs. Our latest addition is the POS-562 Super POS with on-board 100 base-T, audio and LVDS interface. Common features on all POS control boards are 4 serial ports with power, SSD, LCD, VGA and PCI/ISA expansion bus. The POS control board series stands ready to accommodate all your special embedded PC requirements.

Reliable, Affordable and Flexible

POS-562

Pentium MMX SBC with 100BaseT, Audio and LVDS

Audio LVDS MMX 100Base-T XGA



220 mm x 235 mm(8.7" x 9.3")

Ordering Information

POS-562-00A1	586 based SBC with 100/10 BASE-T ETHERNET, VGA, LCD, LVDS, Audio, On board 512 KB cache and 2MB VDRAM. (No CPU, DRAM, SSD memory)
POS-562L-00A1	586 based SBC with 100/10 BASE-T ETHERNET, VGA, LCD, LVDS, On board 512 KB cache and 2MB VDRAM. (No CPU, DRAM, SSD memory) No Audio.
POS-560-00A1	586 based SBC with 10 BASE-T ETHERNET, VGA, LCD. On board 512 KB cache and 1MB VDRAM. (No CPU, DRAM, SSD memory)
POS-560-20A1	586 based SBC with 10 BASE-T ETHERNET, VGA, LCD. On board 512 KB cache and 2MB VDRAM. (No CPU, DRAM, SSD memory)
POS-460-00A2	486 SBC w/ VGA, LCD, SSD, 10 BASE-T ETHERNET w/ 512KB VDRAM, (No DRAM, SSD memory, CPU and cache.)
POS-460-40A2	486 SBC w/ VGA, LCD, SSD, 10 BASE-T ETHERNET w/ 512KB VDRAM, 4M on board DRAM, (No SSD memory, CPU and cache.)

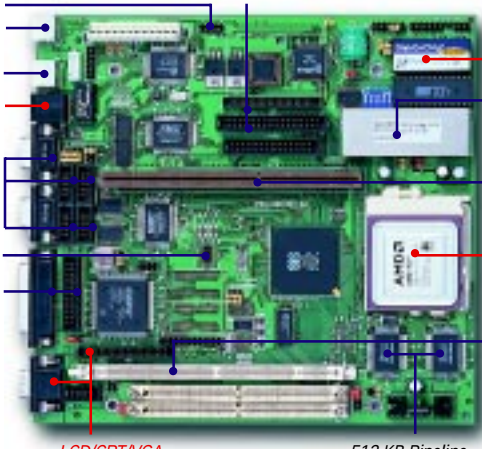
POS Control Boards

For Wide Array of Embedded Applications

POS-560

586-based All-in-one Embedded Control Board

DIO | MMX | LAN | LCD

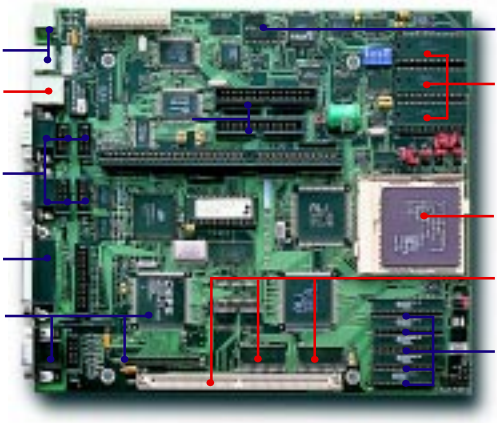


220 mm x 235 mm(8.7" x 9.3")

POS-460

486-based All-in-one Embedded Control Board

DIO | 5x86 | LAN | LCD



220 mm x 250 mm(8.7" x 9.8")



POS-909T

LCD Monitor with Touchscreen Option

- Connects directly to POS-560, POS-460, PCM-4862, PCM-5862 and PCM-5860 via an 85 cm 50-pin mini-SCSI cable

Specifications

Dimensions **:** 296 mm x 220 mm x 32 mm (11.7" X 8.7" X 1.3")

Weight **:** 2.4 kg (5.3 lbs.)

Power Requirements **:** +5 V @ 0.5 A, +12 V @ 0.2 A

LCD **:** 9.5" color DSTN LCD with 640 x 480 resolution

Touchscreen **:** Analog resistive type with RS-232 interface. Software support for both DOS and Windows.

POS-808

Book-size PC



- Built-in 80-watt power supply
- Space for one 3½ " FDD and one 3½ " HDD
- Riser card for 2 ISA expansion slots

Specifications

Dimensions: 343 mm x 300 mm x 77 mm (13.5" x 11.8" x 3.0")

Weight: 3.6 kg (7.9 lbs.)

Power Supply:

AC input	***DC output***
95 ~ 246 V_{AC}, full range	+5 V @ 8 A
47 ~ 63 Hz (3.0 A)	+12 V @ 3 A
	-12 V @ 0.25 A
	-5 V @ 0.25 A



POS-102

PCI / ISA Riser Card

- Fits in POS-808 case
- Provides 2 shared slots for PCI or ISA expansion
- OEM adaptable for embedded applications



POS-103

ISA Riser Card

- Provides 3 ISA slots for expansion
- OEM adaptable for embedded applications

Slot PC Cards

A Perfect Fit for Living Automation

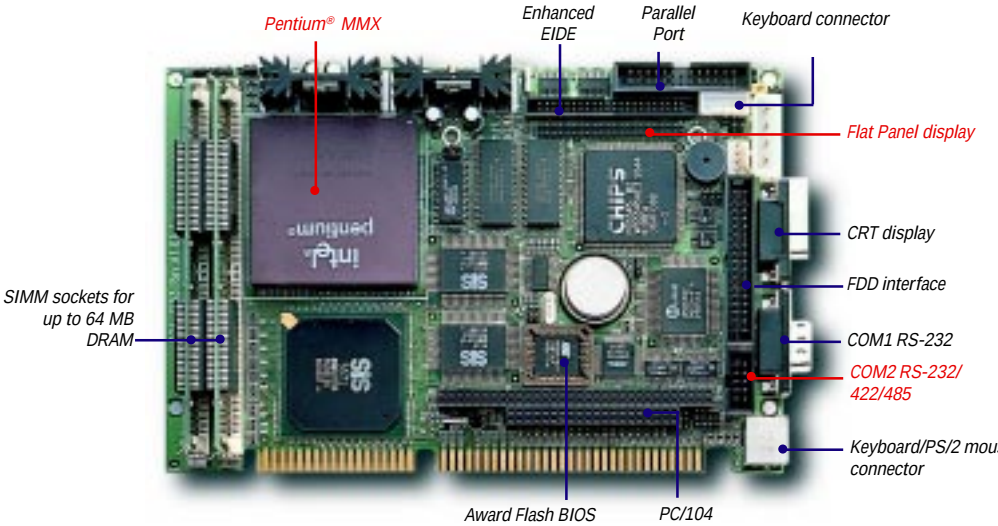
PCA-6153

Half-size Pentium® MMX CPU Card with PCI VGA/LCD

MMX

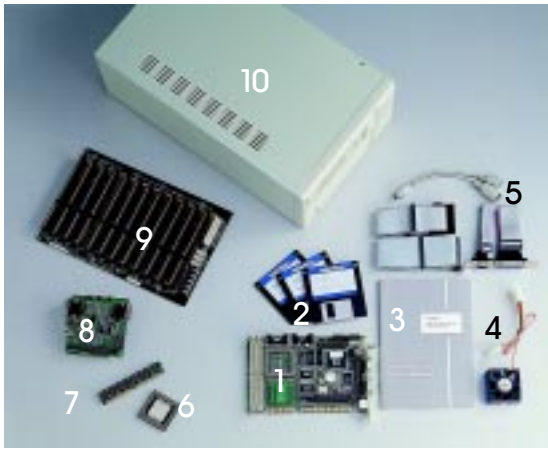
ISA

PC/104



185 mm x 122 mm(7.3" x 4.8")

Accessories



Standard

1. PCA-6153 Half-size Pentium®MMX PC Card
2. Utilities and Driver Disks
3. User Manual
4. CPU Fan
5. Wiring Cables Kit

Optional

6. CPU
7. SIMM Module
8. PC/104 Expansion Module
9. Slot Backplane
10. Slot PC Chassis

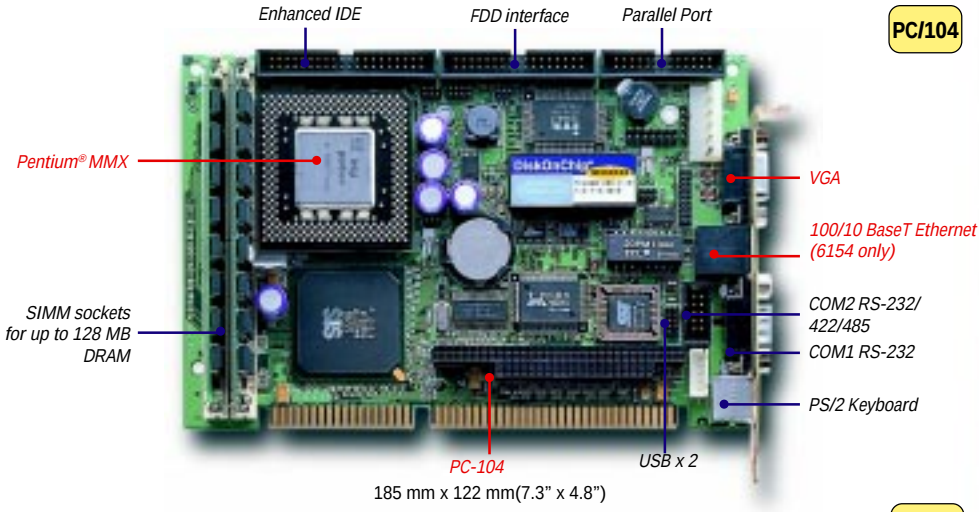
PCA-6154/L

Half-size Pentium® MMX CPU Card with VGA, Ethernet, and SSD

MMX

ISA

PC/104



185 mm x 122 mm(7.3" x 4.8")

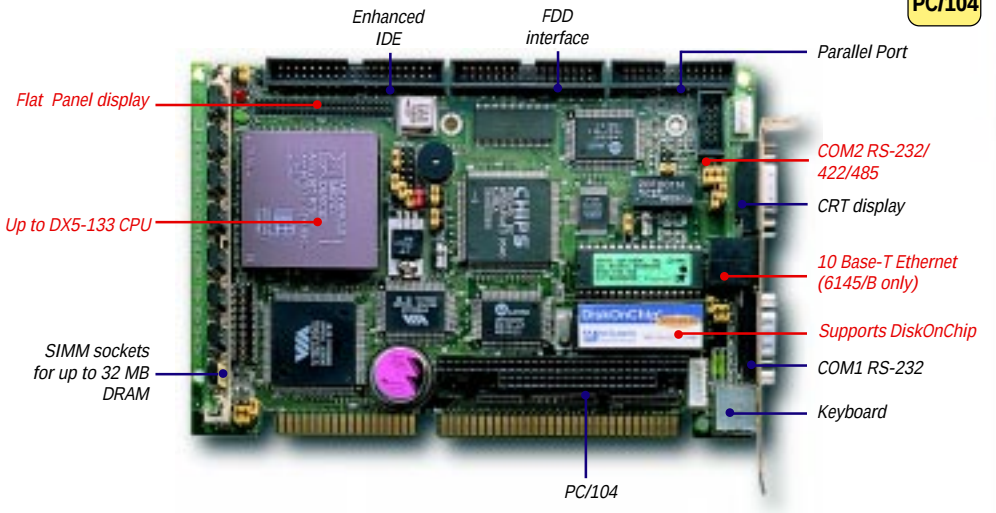
PCA-6145B/45L

Half-size 486 CPU Card with LCD/VGA, Ethernet, and SSD

486

ISA

PC/104



185 mm x 122 mm(7.3" x 4.8")

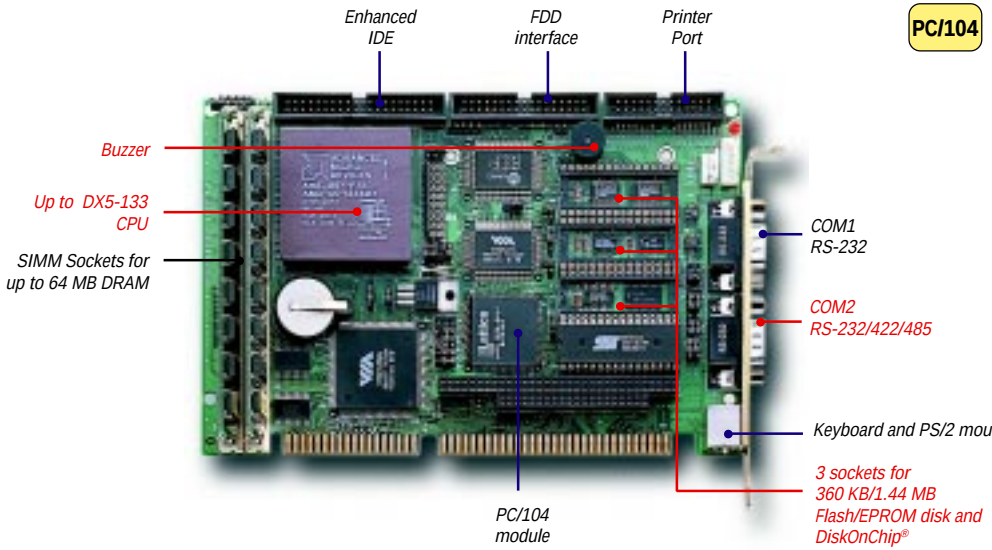
PCA-6144S

Half-size 486 CPU Card with SSD

486

ISA

PC/104



203 mm x 146 mm(7.3" x 4.8")

Ordering Information

PCA-6154-00A1	Pentium® Processor-based Half-size CPU Card with VGA/LAN/SSD
PCA-6154L-00A1	Pentium® Processor-based Half-size CPU Card with VGA/SSD
PCA-6153-00A2	Pentium® Processor-based Half-size CPU Card with PCI LCD/CRT Interface
PCA-6151-0000	Pentium® Processor-based Half-size CPU Card with PCI VGA Interface
PCA-6145B-0000	486 Half-size CPU Card with LCD/ CRT, Ethernet and SSD
PCA-6145L-0000	486 Half-size CPU Card with LCD/ CRT and SSD
PCA-6135-0000	386SX Half-size CPU Card with LCD/ CRT Interface
PCA-6135L-0000	386SX Half-size CPU Card

MBPC-641	4-slot MicroBox IPC Chassis
IPC-6806	6-slot Wallmount IPC Chassis with PCA-6106 Backplane
IPC-6806P	6-slot Wallmount IPC Chassis with PCA-6106P Backplane
IPC-6006	Full-size PC-bus Card Cage with 6-slot PCA-6106 Backplane
IPC-6006S	Half-size PC-bus Card Cage with 6-slot PCA-6106 Backplane
PCA-6120	20-slot ISA-bus Passive Backplane
PCA-6123D	20-slot Dual-system ISA-bus Passive Backplane
PCA-6120Q	20-slot Quad-system ISA-bus Passive Backplane
PCA-6114	14-slot ISA-bus Passive Backplane
PCA-6114D	14-slot ISA-bus Dual-system Passive Backplane
PCA-6115	15-slot ISA-bus Passive Backplane
PCA-6108	8-slot ISA-bus Passive Backplane
PCA-6106	6-slot ISA-bus Passive Backplane
PCA-6104	4-slot ISA-bus Passive Backplane

PC/104 Modules

A Wide Range of Expansion Modules



PCM-3521

Flat Panel / CRT VGA Module

- CHIPS 65545 chipset
- LCD, EL, gas plasma & CRT VGA
- On-board 1MB DRAM
- Max. resolution: 1024 x 768@256 colors
- Connector for flat panel display



PCM-3523

VGA to TV Signal Converter

- 3-channel 8-bit input converter
- Multiple input formats:640 x 480 50/60 Hz, 800 x 600 50 Hz
- Multiple output formats:NTSC, NTSC-EIA, PAL-B/G/H/I and PAL-M
- Composite and S-video output formats



PCM-3335

386SX CPU Module

- On-board 80386SX-40 CPU
- On-board 2/4 MB DRAM
- LCD/CRT VGA interface
- Super I/O



PCM-3112

2-slot PCMCIA Module

- Meets PCMCIA 2.1/JEIDA 4.1
- Supports Type I/II/III PCMCIA cards
- Features two PCMCIA drives
- Programmable 32 KB SMD-type boot EEPROM BIOS

Ordering Information

PCM-3523-0000	VGA to TV Signal Converter
PCM-3521-0000	Flat Panel/CRT VGA Module
PCM-3530-0000	DC to DC Conveter for Flat Panel
PCM-3600-0000	Fax / Modem Module
PCM-3610-A	Isolated RS-232/422/485 Module
PCM-3640-A	4-port RS-232 Module
PCM-3660-C	Ethernet Module
PCM-3110A-00A3	PCMCIA Module

PCM-3110B-0000	Extended Module for PCM-3110A
PCM-3112-0000	2-slot PCMCIA Module
PCM-3718-A	30 kHz A/D Module
PCM-3724-A	48-channel DIO Module
PCM-3730-A	16-channel Isolated Digital I/O Module
PCM-3290A-0100	GPS Module with Active Antenna
PCM-3335-2	386SXCPU Module with 2MB DRAM
PCM-3335-4	386SXCPU Module with 4MB DRAM

Solid State Disks

Reliable in Harsh Environments

Chip Solution



Disk On Chip-2000

Single-chip Flash Disk

- Single-chip Plug & Play FTL Flash disk
- 2 ~ 72 MB capacity
- 32-pin DIP JEDEC standard SRAM/EPROM/FLASH compatible package
- ECC/EDC for high data reliability
- Full boot operability

PC/104 Solution

PCM-3810A

Solid State Disk Module

- Emulates up to 2 FDD per Module under DOS
- Supports 360 KB, 720 KB, 1.2 MB, 1.44 MB
- Power on auto-bootable
- Supports one DOC2000 chip





PCM-3840

DiskOnChip® 2000 Flash Disk Module

- 2 ~ 72 MB capacity, 3 socket support
- Simple, easy to use interface
- 32-pin DIP JEDEC standard SRAM/EPROM/FLASH compatible package
- Uses 8 KB memory window

PCM-3835

IDE Flash Disk Module

- PC/104 form factor
- Fully compatible with standard IDE interface
- On-board Flash memory chips (2/4/8 MB option)
- Supports Compact Flash
- Supports True IDE mode
- Wear-leveling and free space management
- SanDisk® chipset



ISA Solution



PCD-897

DiskOnChip® 2000 Flash Disk Card

- 2 ~ 72 MB capacity, 3 socket support
- Simple, easy to use interface
- 32-pin DIP JEDEC standard SRAM/EPROM/FLASH compatible package
- Uses 8 KB memory window

PCD-892

Flash / SRAM / EPROM Disk Card

- Emulates 1 disk
- Up to 6 MB per card
- Up to 12 MB (2 cards) per system
- Power on auto-bootable
- On-board lithium battery for data retention



IDE Solution



PCD-1230

IDE Flash SSD

- Fully compatible with standard IDE interface
- On-board Flash memory chips (2/4/8 MB option)
- Supports True IDE mode
- Wear-leveling and free space management
- SanDisk® chipset

Ordering Information

PCD-1230-0200	IDE Flash SSD/2 MB
PCD-1230-0400	IDE Flash SSD/4 MB
PCD-1230A-08A1	IDE Flash SSD/8MB
PCM-3835-0200	IDE Flash Disk Module/2 MB
PCM-3835-0400	IDE Flash Disk Module/4 MB
PCM-3835-08A1	IDE Flash Disk Module/8 MB
PCD-892A-0000	Flash/SRAM/EPROM Disk Card with Battery
PCD-892B-0000	Flash/SRAM/EPROM Disk Card without Battery
PCD-894A-0000	PCMCIA Carrier Board
PCD-895A-0000	PCMCIA Carrier Board with External Drive
PCD-897-Bare	ISA bus DOC 2000 SDD card
PCM-3810A-00A1	Solid State Disk Module
PCD-3840-Bare	PC/104 DOC 2000 SDD Module

FAX

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YES

I'd like to know more about your products. send me your

FREE Solution Guide



Please fill out the following form to receive our Solution Guide

I am Interested in the following products:
(check all that apply)

- ❑ Bioint PC
- ❑ POS
- ❑ Full-size CPU cards
- ❑ Half-size CPU cards
- ❑ Solid-state disks
- ❑ PC/104 modules
- ❑ Others_____

My company's primary products and services are:

My applIcations are:

❑ **Contact me to discuss my applIcation needs**

Have you ever purchased products simiiar to those in our brochure?

❑ NO ❑ YES If Yes, form whom?_____

My product needs are:

❑ Immediate ❑ In 3 to 6 months
❑ Future

I am an:

❑ End user ❑ OEM
❑ System integrator ❑ Reseller
❑ Distributor ❑ Other _____

Name _____

Title _____

Company _____

Address _____

_____**Country**_____

TEL:_____ **Ext.** _____

FAX:_____

E-Mail: _____

Homepage: _____

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