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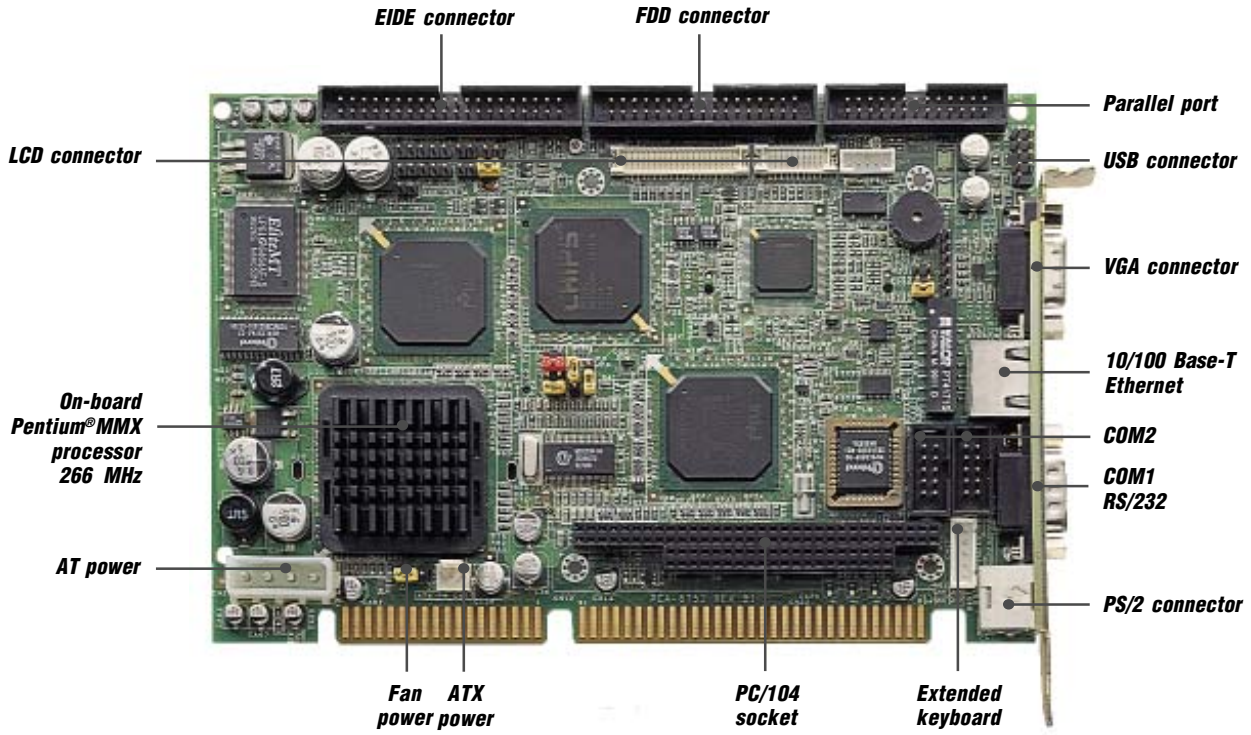
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PCA-6751

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



Introduction

The PCA-6751 is a half-size ISA-bus CPU card designed with an on-board Intel Pentium® MMX CPU. Featuring powerful on-board functions such as VGA, LAN and SSD, the versatile PCA-6751 can meet the needs of many different applications.

Fanless Embedded Pentium® MMX CPU

The PCA-6751 comes with Intel's new embedded Pentium® MMX CPU. The CPU provides high performance with low power dissipation for today's POS terminals, ATMs and industrial PCs.

Guaranteed Long Product Supply Time

In addition to the CPU, all the major components of the PCA-6751 use Intel EMD solutions. These include the 430TX system chipset, C&T69000 VGA/LCD controller and SB82558 10/100Base-T Ethernet interface. Unlike regular commercial solutions, Intel EMD solutions provide higher system stability and longer product supply time (Intel EMD products' typical life cycle is 5 years). The guarantee is paticularly important for end systems that are designed to last for many years.

Features

- On-board Intel MMX 266 MHz CPU
- On-board PCI SVGA for CRT/LCD display with 2 MB VGA RAM
- 10/100Base-T Ethernet
- SSD supports CompactFlash card
- PC/104 connector
- USB connector
- Superior low power consumption, no CPU cooling fan required

Specifications

- **CPU**: On-board Intel Pentium® MMX CPU 266 MHz.
- **BIOS**: AWARD 256 Kbit Flash BIOS, supports Plug & Play, APM 1.2, Ethernet boot ROM, boot from CD-ROM, LS-120, and ZIP drive
- **Chipset**: Intel 430 TX
- **2nd level cache**: 512 KB PB SRAM
- **System memory**: Two SODIMM RAM sockets support from 16 MB to 256 MB of SDRAM
- **PCI IDE interface**: One Enhanced IDE interface, supports 2 IDE devices PIO mode 3, 4 with bus mastering up to 14 MB/sec Ultra DMA mode up to 33 MB/sec
- **Floppy disk drive interface**: Supports up to two floppy disk drives: 3½ " (720 KB or 1.44 MB) and/or 5¼ " (360 KB or 1.2 MB)
- **Parallel port**: One parallel port, supports SDD/EPP/ECP
- **Serial ports**: One RS-232, one RS-232/422/485
- **IR port**: Supports up to 115 Kbps transmission rate
- **Watchdog timer**: Can generate a system reset or IRQ 11. Software enabled/disabled. Time interval is from 1 ~ 62 seconds. Jumperless with run-time setup

VGA Function

- **Controller**: C&T 69000 / C&T 69030, supports CRT & LCD display types
- **Display memory**: 2 MB SDRAM built-in. (optional 4 MB VGA RAM with C&T 69030 chipset)
- **Display resolution**: Up to 1280 x 1024 @ 256 colors (16 million colors @ 4 MB)

Microsoft® Windows® CE

Ethernet Controller Functions

- **Controller**: Intel 82559 10Mbps/100 Mbps (PCA-6751-F1B2)
  RealTek 8139 10Mbps/100 Mbps (PCA-6751-F0B2)
- **I/O address switchless setting**
- **Connector type**: RJ-45
- **Boot ROM**: Built-in system (optional)

Solid State Disk

- Supports Compact Flash disks

Mechanic and Environmental Specifications

- **Max. power requirement**:
  +5 A @ 5 V & 100 mA @ +12 V
- **Operating temperature**: 0° C ~ 70° C (32° F ~ 158° F)
- **Size**: 185 mm x 122 mm

Ordering Information

❑ **PCA-6751-F0B2**
ISA Tillamock Half-sized SBC. P266/
VGA/LCD, Fast Ethernet (8139)/CFC/PC104

❑ **PCA-6751-F1B2**
ISA Tillamock Half-sized SBC. P266/
VGA/LCD, Fast Ethernet (82559)/CFC/PC104

❑ **PCA-6751V-F0B2**
ISA Tillamock Half-sized SBC. P266/VGA/LCD/CFC/PC104

❑ **PCA-6751CE-001**
PCA-6751-F1B2 with Windows CE 3.0 English on 16MB CompactFlash card

❑ **IPC-644-80**
4-slot IPC chassis w/backplane & 80W power supply

❑ **MBPC-641**
4-slot MicroBox IPC Chassis

❑ **IPC-6806/S**
6-slot Wallmount IPC Chassis with
PCA-6106 Backplane

❑ **IPC-6006S**
Half-size PC-bus Card Cage with 6-slot PCA-6106 Backplane

❑ **PCA-6115**
15-slot ISA-bus Passive Backplane

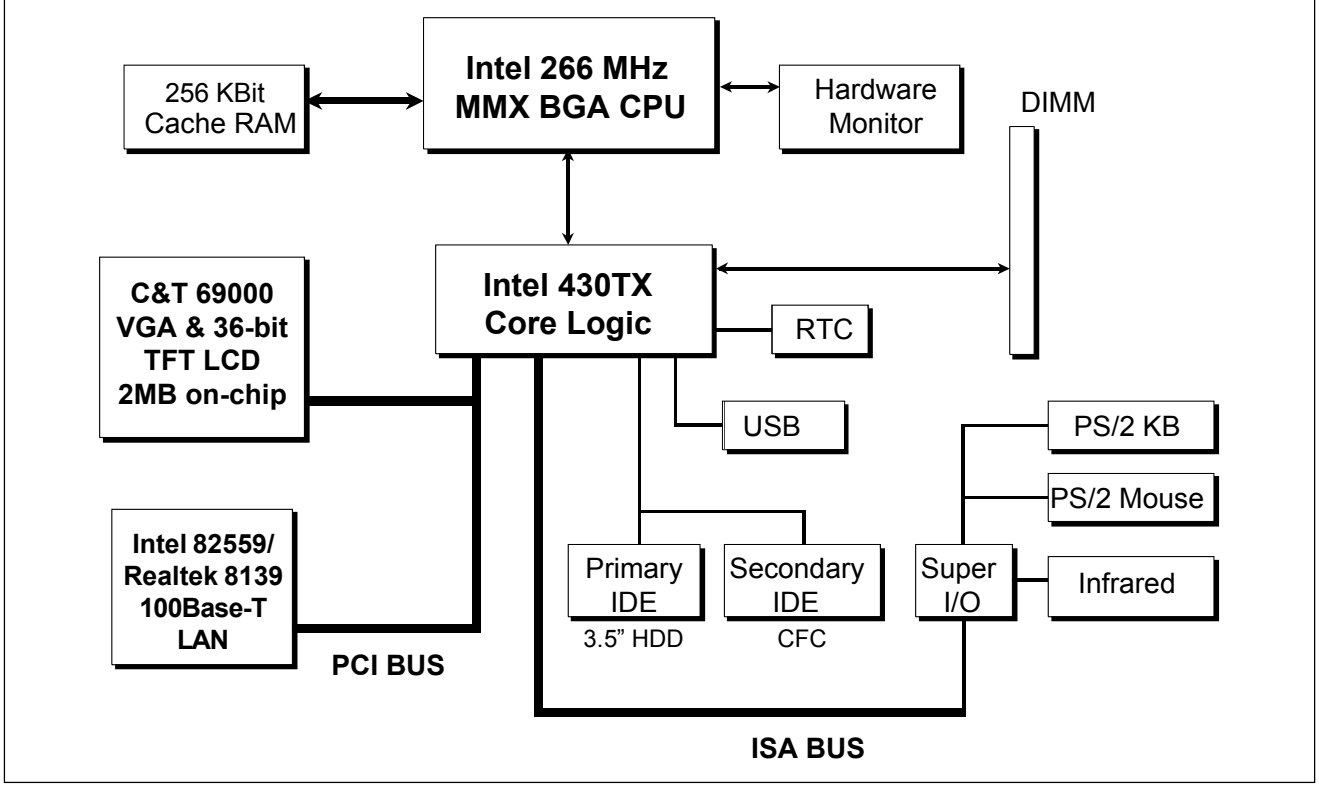
❑ **PCA-6114**
14-slot ISA-bus Passive Backplane

❑ **PCA-6108**
8-slot ISA-bus Passive Backplane

❑ **PCA-6106**
6-slot ISA-bus Passive Backplane

❑ **PCA-6104**
4-slot ISA-bus Passive Backplane

PCA-6751 Block Diagram



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