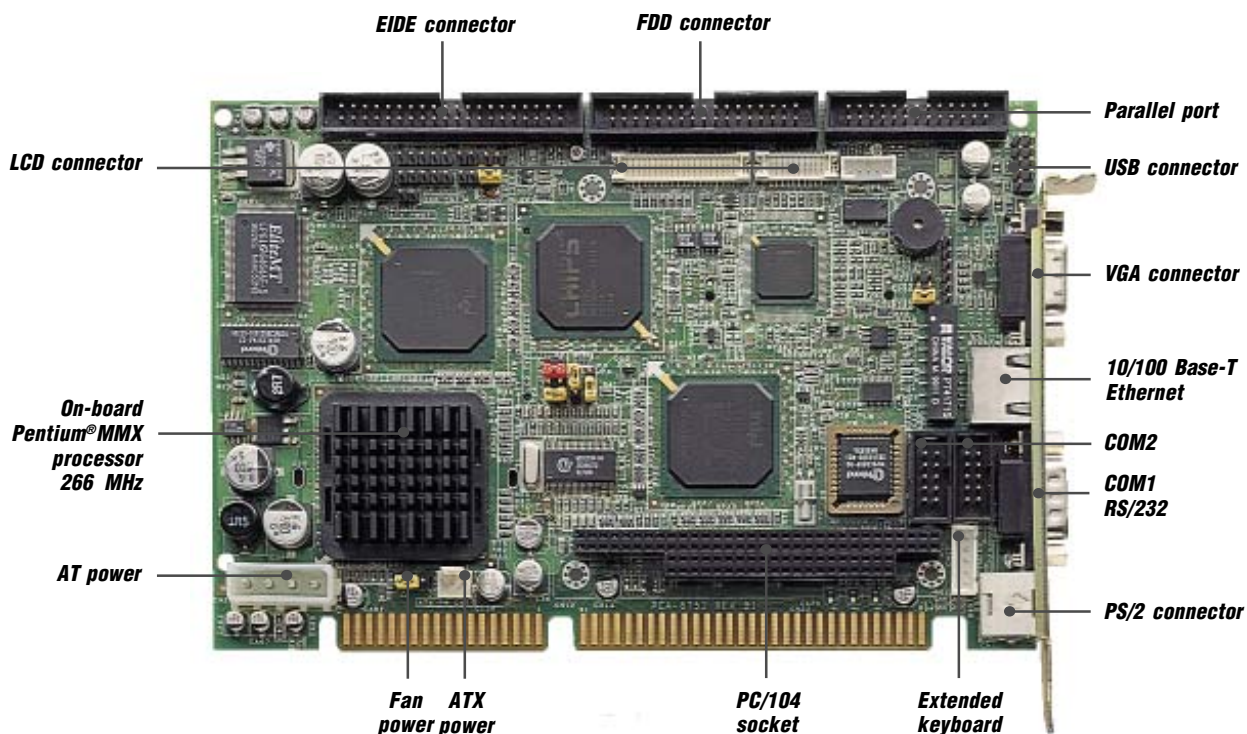


# PCA-6751

**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 particularly 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
- **2<sup>nd</sup> 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)

## 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

