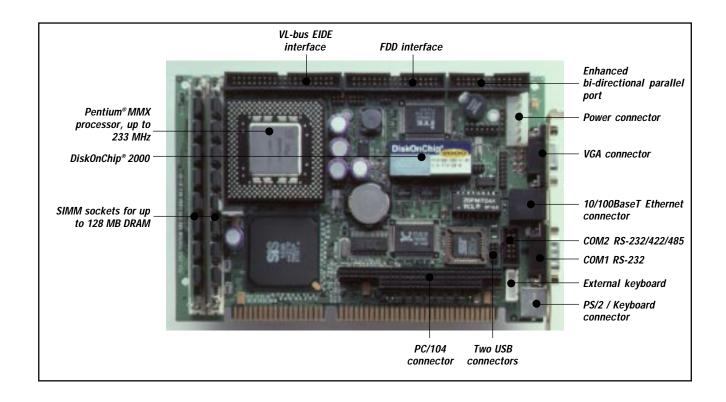
PCA-6154/54L CPU Card with VGA/LAN/SSD

Half-size Pentium® MMX



Introduction

The PCA-6154 and PCA-6154L are half-size single board CPU cards which can release the Pentium® processor's full potential and provide unprecedented performance compared to current 64-bit processor boards. The PCA-6154/54L offers all the functions of an industrial computer on a single board. For maximum performance, the PCA-6154/54L also supports on-board 2nd level cache of 512 KB PB-SRAM.

On-board features include 10/100 Mbps-based Ethernet (PCA-6154 only), one RS-232 port, one RS-232/422/485 port, one multimode parallel (SPP/EPP/ECP) port, a floppy drive controller and a keyboard & PS/2 mouse interface. The built-in high speed PCI IDE controller supports both PIO and bus master modes. Up to two IDE devices can be connected, including large hard disks, CD-ROM drives, tape backup drives and other IDE devices.

The PCA-6154 also features power management to minimize power consumption. It complies with the "Green Function" standard and supports three types of power saving features: Doze mode, Standby mode and Suspend mode. A watchdog timer can automatically reset the system or generate an interrupt should the system stop due to a program bug or EMI.

Features

- Accepts Intel Pentium® processor 75 ~ 233 MHz, P55C (MMX), AMD K5, K6, Cyrix M1, M2, IDT C6 CPUs
- On-board 512 KB Pipeline Burst cache memory
- Bus-master PCI IDE controller supports two IDE devices (large hard disk, CD-ROM, tape backup, etc.)
- One enhanced multimode parallel port, SPP/EPP/ECP
- 63-level watchdog timer, jumperless with run-time setup
- · Green function: supports doze, standby and suspend modes. APM 1.1 compliant
- One RS-232, one RS-232/422/485 interface
- PC/104 connection supports face-up installation
- · On-board PCI SVGA supporting CRT monitor
- Supports M-Systems' DiskOnChip® 2000 Flash disk
- Ethernet adapter (100Base-T compliant) (PCA-6154 only)
- · Supports two USB ports and one infrared (IrDA) port



Specifications

Standard SBC functions

- CPU: Intel Pentium® processor up to 233 MHz, P55C, AMD K5, K6, Cyrix 6x86, 6x86MX, IDT C6
- BIOS: AWARD 256 KB Flash memory; supports plug and play
- · Chipset: SiS 5598
- Green function: Features power management option via BIOS, activated by keyboard or mouse activity. Supports doze, standby and suspend modes. APM 1.1 compliant
- · 2nd Level Cache: 512 KB Pipeline Burst SRAM
- RAM: Two 72-pin SIMM sockets. Supports 32-bit Normal or EDO DRAM with memory capacity from 2 ~ 128 MB
- Enhanced IDE interface: Handles up to two IDE large HDDs or other IDE devices. Supports PIO mode 4 and Ultra-DMA mode
- Floppy disk drive interface: Supports up to two floppy disk drives: 3½" (720 KB or 1.44 MB) and/or 5½" (360 KB or 1.2 MB)
- Parallel port: Configured to LPT1, LPT2, LPT3 or disabled.
 Supports multimode parallel port, (SPP/EPP/ECP)
- Serial ports: One RS-232, one RS-232/422/485 interface
- USB interface: Two USB connectors with fuse protection.
 Complies with USB specification 1.0
- Infrared port: Fast IrDA, transfer rate up to 4 Mbps. I/O port programmable to COM1, COM2, COM3 and COM4
- Watchdog timer: Can generate a system reset or IRQ 15.
 Software enabled/disabled. Time interval is from 1 to 63 seconds. Jumperless with run-time setup
- Keyboard & PS/2 mouse connector: A 6-pin mini-DIN connector is located on the mounting bracket for easy connection to a keyboard or PS/2 mouse. An on-board keyboard pin header connector is also available
- PC/104 expansion: 104-pin, 16-bit PC/104 module connector
- I/O Bus expansion: ISA-bus edge (golden finger) connector

VGA function

- · Controller: SiS 5598 built-in VGA
- Display memory: Share system RAM 1 MB ~ 4 MB
- Display resolution: Supports resolutions up to 1024 x 768.
 Non-interlaced CRT monitor resolutions up to 1024 x 768 @ 256 colors. True-color and Hi-color display capability

Ethernet Controller functions

- · Controller: RTL8139, 10 Mbps (100 Mbps optional)
- I/O address switchless setting
- Software compatible with NE1000 and NE2000
- Connector: RJ-45
- Boot ROM: Built-in system (optional)

Solid State Disk

 Supports M-Systems' DiskOnChip® 2000 Flash disk, up to 72 MB

Mechanical and environmental specifications

- Max. power requirements: +5 V (4.75 to 5.25 V) @ 5 A
- Operating temperature: 32 to 140° F (0 to 60° C)
- Size: 185 mm x 122 mm
- Board weight: 0.7 lbs (0.3 kg)

Ordering Information

□ PCA-6154-00A1:

All-in-one Pentium® half-size CPU card with VGA/LAN/SSD

□ PCA-6154L-00A1:

All-in-one Pentium® half-size CPU card with VGA/SSD

□ PCD-2000-0200/0400/0800/1200/2400/4000/7200:

2 ~ 72 MB DiskOnChip® 2000 Flash disk

