


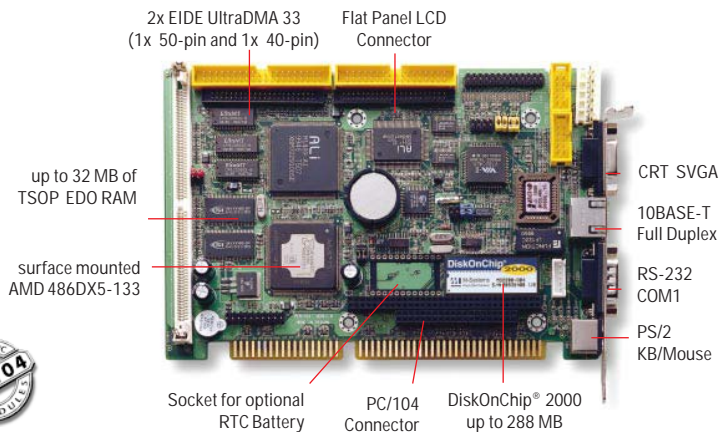


PIA-431

	Am5x86 P-75 installed 486DX5 at 133 Mhz
	LCD / CRT TP 6508Q, 32-bit PCI
	LAN 10 Mbps full duplex Realtek 8019A



AMD® Am5x86™

Flat Panel /CRT SVGA, Ethernet and PC/104 Interface

General Specifications

CPU (installed)

AMD® Am5x86™ is an 486DX5-133 embedded CPU that easily outperforms an Intel Pentium 75. Jumper selectable speed (100/133) for ultra low power, low temperature operation

Chipset

ALi 1487, ALi 1489

BIOS

AWARD PCI/ISA PnP system BIOS

Green Function

power saving options supported in BIOS. DOZE / STANDBY / SUSPEND modes

Secondary Cache

128 KB Pipelined Burst SRAM

DRAM Memory

8~64 MB EDO RAM max, 8 / 16 / 32 MB surface mount (TSOP) and up to 32 MB additional EDO RAM in 72-pin SIMM socket

Bus Interface

ISA and PC/104 (speed 8.3 MHz)

PCI Enhanced IDE with Ultra DMA

supports 2 ports and up to 4 ATAPI devices, Ultra DMA transfer rates 33 MB/sec.

One standard 40-pin IDE connector and one 44-pin IDE connector for 2.5" (laptop-size) HDD/Flash IDE drive including power

Watchdog Timer

128-level timer generates RESET or NMI when your application loses control over the system.

Real-time Clock

Standard onboard is a lithium battery while RTC clock is located in Ali chipset

Dallas DS-12B887 or compatible (factory option) with lithium battery backup for 10 years of data retention. CMOS data backup of BIOS setup and BIOS default.

High Speed Multi I/O

Chipset

ALi 5113

Serial ports

1 high speed RS-232C ports (COM1), 1 high speed RS-232C/422/485 port (COM2) jumper selectable. Both with 16C550 compatible UART and 16 byte FIFO with +5V / +12V power pins for POS

Floppy Disk Drive Interface

supports 2 floppy disk drives, 5¼" (360 KB or 1.2 MB) and 3½" (720 KB, 1.44 MB). BIOS enabled/disabled

Bidirectional Parallel Port

supports SPP, EPP and ECP mode. BIOS enabled/disabled

Keyboard and Mouse Connectors

external 6-pin mini DIN for PS/2 mouse, external 6-pin mini DIN for PS/2 Keyboard, onboard 5-pin header for AT Keyboard

Flash DiskOnChip®2000

Package

Single Chip Flash Disk in 32-pin DIP JEDEC

Capacity

2-288 MByte capacity

Data Reliability

ECC/EDC error correction

Memory Window

8 KByte

Network Interface

Chipset

Realtek 8019AS single chip

Type

10BASE-T, NE2000 compatible

Connectors, LEDs

RJ-45 on bracket with signalling LEDs
10BASE-T indicator, activity indicator
both located on bracket

Display Controller

Chipset

TP 6508Q, 32-bit PCI

Memory

1 MB onboard

System Bus

32-bit PCI bus

Panel Data Bus

24-bit

Display

CRT and Flat Panel Mono/TFT/DSTN/EL

Compatibility

IBM VGA hardware

Environmental and Power

Power Requirements

single +5V @ 1.45 A (typical), ±12 V (onboard CPU with 8 MB EDO RAM)

Connectors

6-pin power source block

Board Dimensions

185 x 122 mm.

Board Weight

0.24 Kg

Operating Temperature

0 to 55°C (32 to 131°F)

Ordering

PIA-431/8 : Half-size ISA-bus Embedded 5x86-133 CPU Card with Flat Panel / CRT SVGA, Ethernet, DiskOnChip socket and 8 MB of surface mounted EDO DRAM onboard

PIA-431/16 : as above with 16 MB of surface mounted EDO DRAM onboard (OEM only)

PIA-431/32 : as above with 32 MB of surface mounted EDO DRAM onboard (OEM only)

(All above boards include a surface mounted AMD Am-5x86-133 CPU)

