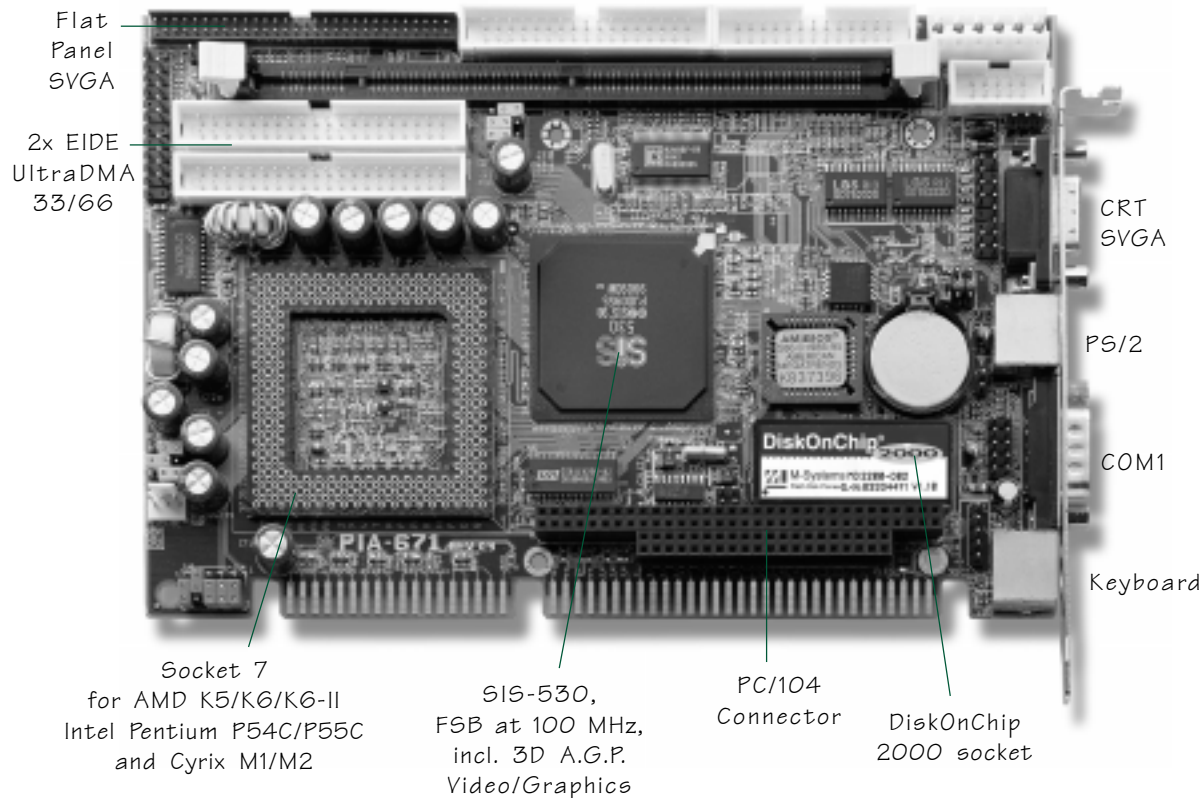


PIA-671

Half-size All-in-One Pentium CPU Card

with Flat Panel / CRT SVGA interface and DiskOnChip Flash Disk



Special Features

- Accepts Intel MMX, Cyrix M1/M2 AMD K5, K6/K6-II up to 400 MHz
- AGP SVGA 3D Accelerator for Flat Panel and CRT Displays
- Enhanced IDE with Multiword DMA Mode 0, 1, 2 and Ultra DMA 33/66,
- DiskOnChip® 2000 socket for a Flash disk of up to 144 MB
- 512 KB pipeline burst cache
- CPU temperature control and alarm function
- Watchdog Timer

The PIA-671 is a half-size Pentium single board computer that can drive both CRT and Flat Panel Displays. The board supports the latest high speed socket 7 CPUs. With its small form factor and high performance the board is a cost/effective solution for demanding application such as GUI-based MMI solutions or high speed server/controller functions.

ENHANCED IDE, HIGH-SPEED I/O

A built-in fast PCI IDE controller supports ATA PIO/DMA and Ultra DMA33/66 with transfer rates of up to 66 MB/s.

A separate data path for both IDE channels improves the overall performance under multi-tasking environments. In addition, the PIA-671 has 2 RS-232 ports with 16C550 and 16-Byte FIFO and one bi-directional printer port that supports SPP, ECP and EPP modes. For enhanced data transfer, USB and IrDA ports are available.

FLAT PANEL/CRT SVGA

The integrated VGA controller is a high performance 3D graphics Accelerator with built in DVD circuitry that drives both standard CRT and Flat Panel (TFT, DSTN) displays. Up to 8 MB of frame buffer memory can be assigned.

DISKONCHIP®2000

The SSD socket accommodates a DiskOnChip® 2000, a new generation of high performance single-chip Flash Disks. This unique data storage solution offers a better, faster and more cost-effective Flash Disk for applications with limited space and modest disk capacity requirements

WATCHDOG TIMER

The onboard Watchdog Timer can invoke an NMI or system RESET when your application loses control over the system.

Specifications

- **CPU** : AMD K5/K6/K6-II up to 400 MHz ,
Cyrix M1/M2, Intel Pentium P54C/P55C (Socket 7)
- **Chipset** : SIS 530 (Host, PCI, 3D A.G.P. Video/Graphics)
- **BIOS** : AWARD PCI/ISA PnP system BIOS
- **Green Function** : power saving options supported in BIOS.
DOZE / STANDBY / SUSPEND modes
- **Secondary Cache** : write Back Cache Mode with Direct
Mapped Cache Organization, 512 KB Pipelined Burst SRAM
(up 1MB - 2MB)
- **DRAM Memory** : 512 MB of EDO or SDRAM
in one 168-pin DIMM socket
- **Bus Interface** : ISA and PC/104
- **Data Bus** : 32-bit
- **Bus Speeds** : ISA - 8 MHz, PC/104 - 8 MHz
- **DMA Controllers** : 8237 x 2
- **DMA Channels** : 7
- **Interrupt Controllers** : 8259 x 2
- **Interrupt Levels** : 15
- **PCI Enhanced IDE with Ultra DMA** : supports two ports
and up to four hard drives or Enhanced IDE devices.
Supports IDE PIO Timing Mode 0, 1, 2 ,3 and 4,
Multiword DMA Mode 0, 1, 2 and Ultra DMA 33/66
- **Watchdog Timer** :
generates an NMI or system RESET when your application
loses control over the system. The timer interval is:
1, 2, 10, 20, 110 and 220 seconds .
- **Real-time Clock** : included in SIS-530 with lithium battery
backup for 10 years of data retention. CMOS data backup
of BIOS setup and BIOS default.
- **Keyboard and Mouse Connectors**:
6-pin mini DIN connector for PC/AT keyboard
6-pin mini DIN connector for PS/2 mouse or keyboard
Onboard 5-pin header connector for PC/AT keyboard

HIGH SPEED MULTI I/O

- **Chipset** : ITE 8661F
- **Serial Ports** : one external high speed RS-232 port COM1,
one internal high speed RS-232/485 port COM2 (jumper
selectable). Both with 16C550 UART and 16 byte FIFO.
- **USB** : two onboard USB ports (12 Mb/s and 1.5 Mb/s)
- **SIR Interface** : 5-pin IrDA TX/RX header
- **Floppy Disk Drive Interface** :
up to two floppy drives, 5¼" (360 KB or 1.2 MB) and 3½"
(720 KB, 1.44 MB or 2.88 MB). BIOS enabled/disabled
- **Bi-directional Parallel Port** :
supports SPP, EPP and ECP mode.

AGP SVGA 3D VIDEO/GRAPHICS ACCELERATOR

- **Chipset** : integrated SIS 530
- **Shared Memory** : up 8 MB SDRAM frame buffer ,
assigned in BIOS setup
- **Bus** : 64-bits 100MHz host interface
- **Display** : CRT and Flat Panel TFT/DSTN/EL (simult.)
Contact us for flat panel display support.
- **Resolution** : up to 1280x1024 x true color
- **Connectors** : 15-pin external connector DIN for CRT
60-pin internal connector for Flat Panel

FLASH DISK DISKONCHIP®2000

- **Package** : Single Chip Flash Disk in 32-pin DIP JEDEC
- **Capacity** : 1-144 MByte capacity
- **Data Reliability** : ECC/EDC error correction
- **Memory Window** : 8 KByte

ENVIRONMENTAL AND POWER

- **Power Requirements**:
+5 V (4.75 ~5.25 V) @ 6 A max,
±12 V @ 1 A max
- **System Monitoring and Alarm**: CMOS-based PC hardware
monitor, monitors CPU and system temperature, fan speeds
and power supply voltages. Upper and lower limits can be
set to trigger an alarm when a value exceeds its limits.
- **Board Dimensions** : 185 (L) x 122 (W) mm.
- **Board Weight** : 250 g
- **Operating Temperature**: 0 to 55°C

Ordering

- ☐ **PIA-671DV** : Half-size All-in-One Pentium CPU Card
with Flat Panel / CRT SVGA Controller
and DiskOnChip Flash Disk socket