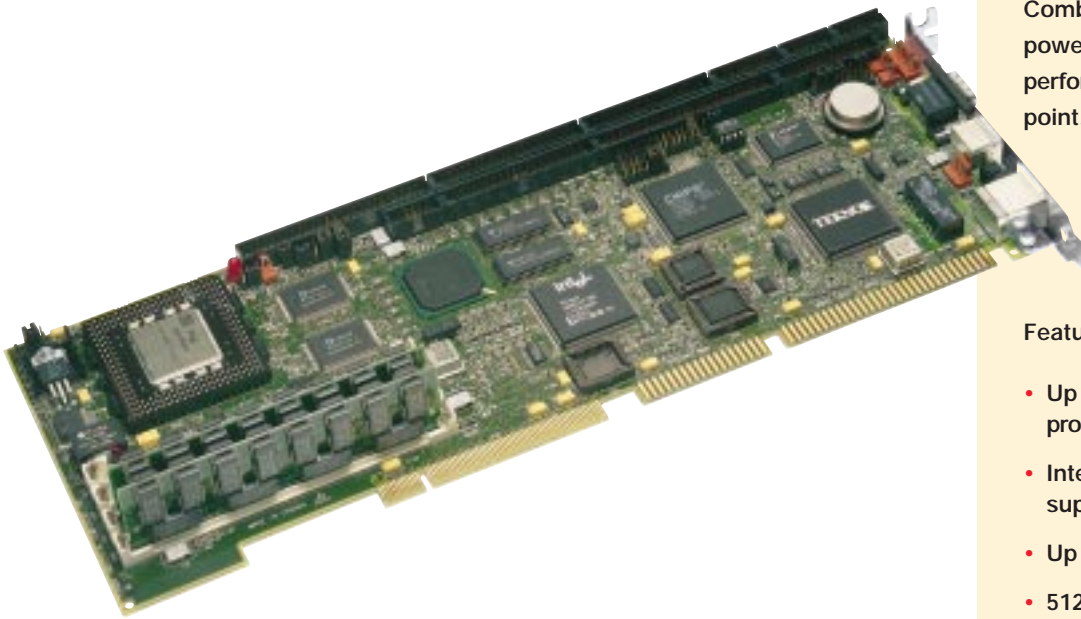


PCI-936

Integrated technology for an "all-in-one" solution



Combined Pentium® processing power and Intel chipset deliver performance at a competitive price point.

Features include:

- Up to 233MHz Pentium® processor with MMX™ technology
- Intel 82430HX chipset (with ECC support)
- Up to 512MB FPM or EDO DRAM
- 512KB L2 Cache and 4MB Flash Disk
- PCI EIDE and Ultra SCSI
- PCI FP/CRT SVGA
- 10/100Base-TX Ethernet

Engineered for high performance applications

The PCI-936 "all-in-one" CPU is a high performance, single board computer using the Intel Pentium® or Pentium® with MMX™ technology processor and Intel 82430HX PCI set with a high efficiency onboard CPU switching regulator.

Highly integrated, it features PCI peripheral controllers for dual channel EIDE, Ultra Fast SCSI, Flat Panel / CRT graphics and 10/100Base-TX Ethernet.

In addition to a standard floppy disk interface and serial/parallel ports, the PCI-936 provides two Universal Serial Bus (USB) ports and supports Plug and Play I/O.

PCI-936 - Technical Specifications

Bus Interface

- PICMG: PCI Rev. 2.1 compliant PICMG Rev. 2.0 compliant
- ISA: Drives up to 20 slots
- IBM PC/AT mechanical format

CPU Type & Speed

- 133, 166MHz Pentium® processor
- Intel 166, 200 & 233MHz Pentium® with MMX™ technology
- Intel 82430HX chipset

Memory

- DRAM: FPM or EDO 8 to 512MB using up to four 72-pin SIMMs
- Parity / non-parity & ECC support
- L2 Cache: 512KB synchronous pipelined burst, 512MB cacheability
- Flash Disk: 2MB or 4MB
- Unique silicon serial number
- 4KB Serial EEPROM

Data Path

- 64-bit on CPU bus
- 32-bit on PCI bus
- 16-bit on ISA bus

Video

- Chips & Tech 65550 graphics processor
- 2MB EDO video memory
- CRT resolutions to 1280 x 1024 x 256 colors
- Flat panel resolutions up to 1024 x 768 x 64K colors
- Flat Panel support for monochrome, S/S and D/D STN, EL and TFT displays
- 24-bit color video DAC
- 64-bit graphics engine with BitBLT
- Simultaneous CRT / Flat Panel support
- V-PORT™ (Asynchronous Digital Video) interface

I/O

I/O: SMCFCDC37C932 Ultra I/O

Serial: Two RS-232 ports configurable as COM1-4; COM2 can be RS-422/485 configured by BIOS software

Parallel: 1 bi-directional port with all IEEE 1284 protocols supported (compatibility, nibble, byte, EPP, and ECP)

Hard disk: Two channel PCI EIDE; drives up to four hard disks

Floppy disk: Interface for two, 1.44 or 2.88MB floppy drives

USB: Two Universal Serial Bus (USB) Ports

Clock / Calendar

- Real-time clock with battery backup

Supervisor Utilities

- Dual Watchdog timers
- Power failure / low battery detector
- Reset history status
- CPU temperature sensor / alarm

SCSI

- PCI Ultra SCSI, 8-bit bus
- Symbios 53C860 Risc Engine
- 20MB/s synchronous transfers
- 7MB/s asynchronous transfers
- PCI Rev., 2.1 compliant bus master
- SCSI BIOS Boot Capable
- Active Terminations

Ethernet

- 10/100Base-TX interface
- Intel 82557 Ethernet controller
- PCI Rev. 2.1 compliant bus master
- Integrated link and activity LEDs

BIOS

- Award BIOS
- Updatable BIOS in Boot Block Flash
- Auto configuration and extended setup
- Programmable CPU and memory wait states
- BIOS shadowing in RAM
- Extensions for diskless, keyboardless and videoless operations
- Ability to boot MS-DOS and user applications from Flash disk
- Advanced power management support
- CPU thermal management
- Plug and Play peripheral support

External Connectors

- IDE hard disk (2), floppy disk, parallel & serial ports (2): individual shrouded headers
- AT keyboard, speaker, reset port: combo shrouded header
- CRT: DB-15
- Flat Panel display: 50-pin shrouded header
- V-PORT™: 26-pin header
- SCSI: 50-pin shrouded header
- PS/2 mouse: 6-pin DIN connector + 4-pin locking header
- PS/2 keyboard: 6-pin DIN connector
- Ethernet: shielded RJ-45
- Power: 6-pin locking header
- 12V DC Fan: 2-pin locking header

Operating Temperature

- 0° to 62°C / 32° to 143°F (with airflow)
- CPU case temperature 70°C / 158°F
- Consult factory for high speed processor temperature specs
- Extended temperature range available

Noncondensing Relative Humidity

- 5% to 95%

Electrical / Mechanical

- Conforms to the IEEE P996 PC/AT bus specification, PCI specifications Rev. 2.1 and PICMG Rev. 2.0
- High drive buffers on ISA-bus for backplanes up to 20 slots

Supply Voltage

- Vcc = +5V ±5%
- +12V ±5%

Supply Current

IPP: +12V 7.6mA

Pentium:	133	166	
ICC typ.*: @+5V	4.00A	4.50A	
ICC susp.: @+5V	2A	2A	

MMX:	166	200	233
ICC typ.: @+5V	4.51A	4.70A	4.91A
ICC susp.: @+5V	2.41A	2.44A	2.48A

* Measured with 16MB DRAM, 512KB Cache, 2MB video memory, SCSI, Ethernet, keyboard, floppy and hard disks installed.

Board Dimensions

- 13.33 in. x 4.8 in. / 338.5 mm x 121.9 mm

MTBF

- >128,000 hours (MIL-HDBK-217F)

* Based on Ground Benign environment, operating ambient: 20°C / 68° F, temperature rise: 10° C / 50° F

Operating Systems Compatibility

- PC and MS-DOS™, Windows® 3.X, Windows® 95, Windows® 98, Windows® NT, OS/2® Warp, SCO UNIX™, QNX™, NOVELL™, UnixWare™

Warranty Period

- Two years



Teknor Applicom helps customers speed to market with applied computing solutions featuring single board computers and integrated systems specifically designed for Industrial Automation, Internet, Telecommunications, Mobile Computing and all types of high-speed, high-availability applications.

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