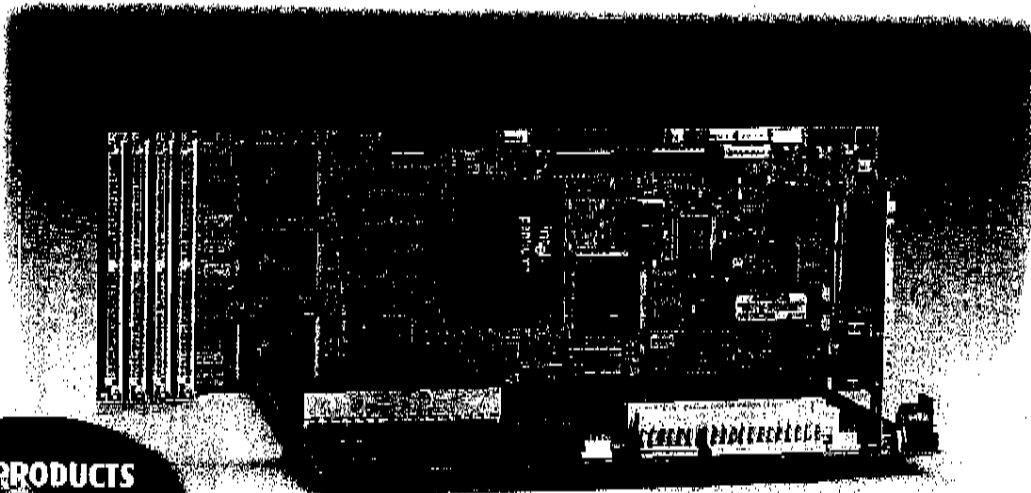


PENTIUM NEPTUNE

ALL PRODUCTS
MADE IN USA



PENTIUM POWER, ON-BOARD SCSI-2 TO FREE UP SLOT SPACE

When your applications demand the speed and power of the Pentium chip, along with the slot-freeing bonus of an on-board SCSI-2 interface, there's nothing better than the TR-P5PCI single board computer.

If you need to crunch a lot of data—in a hurry—TR-P5PCI can push the load. It processes at the fastest speeds, using powerful Pentium technology.

Yet all that power doesn't limit its expandability. This computer carries a PCI SCSI-2 interface right on board—so you can save a PCI slot.

Plus, our commitment to PICMG means you're guaranteed a match with the most exacting industry standards. Specifically, the TR-P5PCI fully supports the PCI Local Bus standard.

For power and flexibility, turn to Trenton.



CPU:

Intel Pentium 75/90/100/120/133/150/166 MHz

BUS INTERFACES:

ISA and PCI Local Bus compatible. Internal 24 mAmp drivers for supporting up to 20-slot backplanes.

DATA PATH:

Data/Memory — 64-bit
ISA — 16-bit
PCI — 32-bit

BUS SPEED:

ISA — 8MHz
PCI — 25MHz 75MHz CPU
30MHz 90,120,150MHz CPU
33MHz 100,133,166MHz CPU

DMA CHANNELS:

Fully PC compatible with seven DMA channels, each supporting type F transfers.

INTERRUPTS:

Fully PC compatible.

BIOS:

AMI WinBIOS with built-in advanced CMOS setup for system parameters, peripheral management for configuring on-board peripherals, PCI-to-PCI bridge support, and PCI interrupt steering. Custom BIOSs available.

CACHE MEMORY:

The 64-bit wide second level (L2) cache supports 256K direct mapped write-back cache policy with synchronous burst SRAMs.

DRAM MEMORY:

The DRAM interface is a 64-bit path that supports up to 256MB of fast page mode memory. Supports 70ns industry standard 36-bit wide gold finger SIMM DRAM in four 72-pin SIMM sockets. All 256MB is cacheable.

MEMORY HOLE:

Supports a 1MB memory hole option at 15-16MB.

PARITY CHECKING:

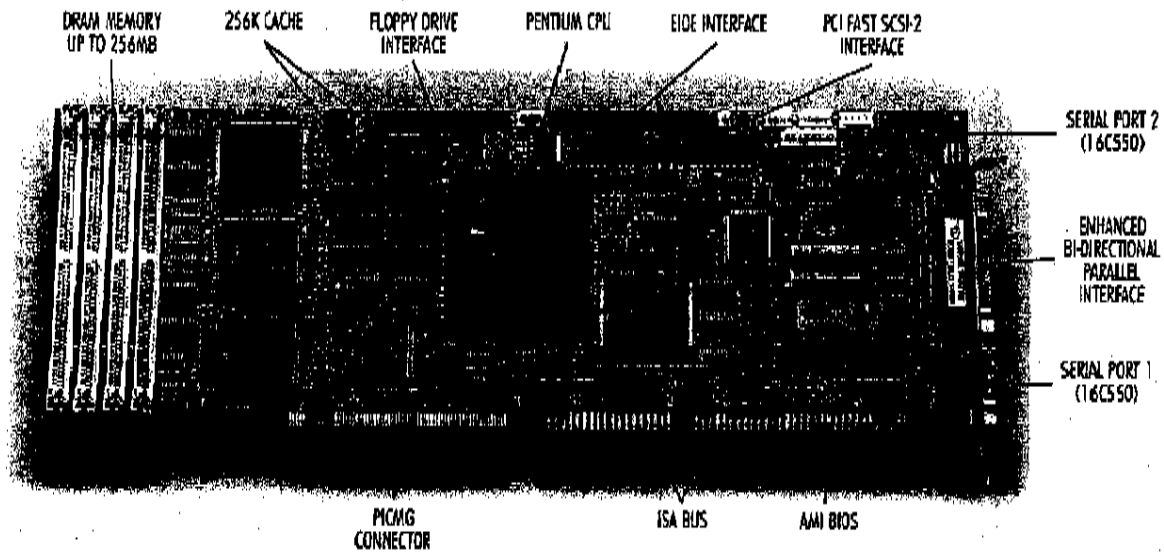
Parity checking is included in the DRAM interface.

PCI LOCAL BUS INTERFACE:

Fully compliant with the PCI Local Bus 2.0 Specification with peak transfer rates of 132MB per second. Supports four PCI masters with full concurrence between CPU host and PCI Bus transactions.

PCI FAST SCSI-2 INTERFACE:

The SCSI interface is a PCI Bus Master device that supports fast SCSI data transfer up to 10MB per second and bursts data to the host at full PCI speeds. Software drivers are available for the most popular operating systems.



ENHANCED IDE INTERFACE:

The EIDE interface is capable of supporting up to two IDE disk drives in a master/slave configuration. With LBA settings in the BIOS parameters, disk drives greater than 528MB are supported.

FLOPPY DRIVE INTERFACE:

Supports up to two floppy disk drives in combinations of 360K to 2.88MB.

SERIAL INTERFACE:

Two high-speed FIFO (16C550) serial ports with independently programmable baud rates. Each serial port has hardware selectable IRQs and BIOS selectable addressing. Filtered connector is provided to minimize FCC interference.

ENHANCED BI-DIRECTIONAL PARALLEL INTERFACE:

Compatible with PC/AT bi-directional parallel port and supports EPP and ECP modes. The ECP mode is IEEE 1284 compliant. Parallel port has hardware selectable IRQs and BIOS selectable addressing.

WATCHDOG TIMER:

The software controlled watchdog timer monitors system activity and generates a reset pulse in the event of a timeout.

POWER FAIL DETECTION:

Issues a hardware reset when on-board voltage drops below 4.75 volts.

KEYBOARD INTERFACE:

Compatible with AT type keyboard.

BATTERY:

Built-in lithium battery for ten years of data retention for CMOS memory.

POWER REQUIREMENTS:

+5V - 3.5 Amps typical
+12V - <100 mAmps typical
-12V - <100 mAmps typical

TEMPERATURE:

0° - 60° C. Operating
-40° - 70° C. Storage

MEAN TIME BETWEEN FAILURES (MTBF):

92,000 POH (Power On Hours)

SYSTEM PERFORMANCE (NORTON S.O.):

166MHz	523	100MHz	316
150MHz	476	90MHz	288
133MHz	419	75MHz	238
120MHz	380		

CERTIFICATION:

Windows NT

WARRANTY:

Coverage for repair or replacement of returned goods is two years from date of shipment.

ORDERING INFORMATION:

Model Name	CPU Speed	Model #
TR-P5PCI/166/xM	166MHz	5346-12
TR-P5PCI/150/xM	150MHz	5346-08
TR-P5PCI/133/xM	133MHz	5346-07
TR-P5PCI/120/xM	120MHz	5346-06
TR-P5PCI/100/xM	100MHz	5346-01
TR-P5PCI/90/xM	90MHz	5346-00
TR-P5PCI/75/xM	75MHz	5346-02

(xM = Memory)

Pentium is a trademark of Intel Corporation.

See page 28 for ordering and shipping information, or contact us at:

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Fax: (770) 287-3150

Internet e-mail: Sales@TrentonProcessors.com



Dependable, always.