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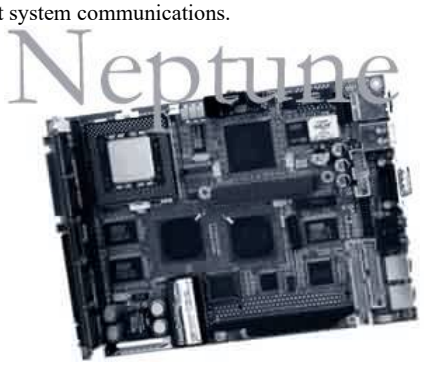
The Wayback Machine - https://web.archive.org/web/20010303233026/http://www.adastra.com:80/ProdSpecs/Neptune.htm

ADASTRA SYSTEMS
a JUMPtec company

Specifications in PDF Manual in PDF Ordering Information

The Neptune Single Board Computer is an embedded solution designed for multi-media applications. This board supports the Pentium® MMX™ processor, includes on-board SoundBlaster Pro™ and Windows Sound System™ compatible audio, and is based on the Intel TX chipset. The Neptune offers an optional parallel-mounted PCI cardedge slot for keeping up-to-date with the latest in VGA and SVGA technology and comes standard with a 10/100Mbit Ethernet interface for fast system communications.

The Adastra Systems family of embedded products includes single board computers, additional peripherals, I/O adapters, hardware and software development tools.



To begin project development: QuicKit Neptune

FEATURES

PROCESSOR	Intel Pentium and Pentium MMX to 233Mhz
MEMORY	Up to 128Mb of EDO or SDRAM memory
NETWORK	10/100 Mbit Ethernet
UNIVERSAL SERIAL BUS	Two USB ports with overcurrent protection and USB keyboard support
SERIAL I/O	Two deep-FIFO RS-232/RS-485 serial ports
PARALLEL I/O	One enhanced parallel ports
KEYBOARD & MOUSE	PS/2 keyboard and mouse
ENHANCED IDE	Two independent high performance local bus EIDE
SOLID STATE DISK	Up to 72Mb with M-Systems DiskOnChip
BUS EXPANSION	PC/104 & PC/104 Plus
OTHER	Floppy disk controller Real time clock 16-bit PC/104 bus

SPECIFICATIONS

CORE SYSTEM

Intel Pentium to 200Mhz, Pentium MMX to 233Mhz
66Mhz system clock, up to 233Mhz CPU
One 168-pin DIMM socket supports 3.3V unbuffered EDO or SDRAM, no parity
512K synchronous burst L2 cache on-board
High performance Intel TX core chip set
Floppy disk controller, supports 2.88M
Two independent Enhanced IDE ports
Secondary PCI EIDE port supports emulated bus master DMA for low overhead CD-ROM support

AUDIO

Sound BlasterPro and Windows Sound System Compatible
Full duplex operation (simultaneous record/play)
Plug-and-Play
Stereo power amplifier on-board, 6W/channel peak power
Speaker out, line in, and microphone

NETWORK

PCI, 32-bit, Fast Ethernet, Novell 2100 compatible
10/100 BaseT on-board with auto-negotiation
10Base2 or 10Base5 optional through AUI
Drivers for NDIS, ODI, TCP/IP, UNIX, and RTOS
Network Boot support

SOLID STATE DISK

32 pin ROM socket accepts M-Systems DiskOnChip™ or Netboot ROM

UNIVERSAL SERIAL BUS (USB)

Two USB ports with overcurrent protection
USB ports accept USB "A" cables directly
USB keyboard BIOS support

PC/AT I/O

Two 16550 compatible serial ports with full RS-232 support
One with full/half duplex RS-485 support
One enhanced parallel port
PS/2 keyboard and mouse

EXPANSION

PC/104 Plus (ISA and PCI) site supports up to 3 PCI modules
One optional right angle "slot" PCI connector

BIOS

AWARD flash BIOS, Shadow RAM Operation
Field upgradeable Flash
Optional customization

ADDITIONAL FEATURES

Watchdog Timer
Battery backed real-time clock

ENVIRONMENTAL

5V required at 5-10A (dependent on processor)
12V required at 1A (for audio, depends on speaker volume)
0 to 70° Celsius operating temperature (with proper heatsink/fan on CPU)
-40 to 85° Celsius storage temperature
5% to 95% relative humidity (non-condensing)
On-board temperature sensor monitors CPU temperature

MECHANICAL

Size: 5.75" x 8.00" x 1.5" (Small Form Factor)
Six mounting holes
Mounting for PC/104 AND PC/104 Plus adapter card

MTBF (Mean Time Between Failures)

100,000 Hours

Specifications in PDF Manual in PDF Ordering Information

Send mail to webmaster@adastra.com with questions or comments about this web site.
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We buy equipment

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