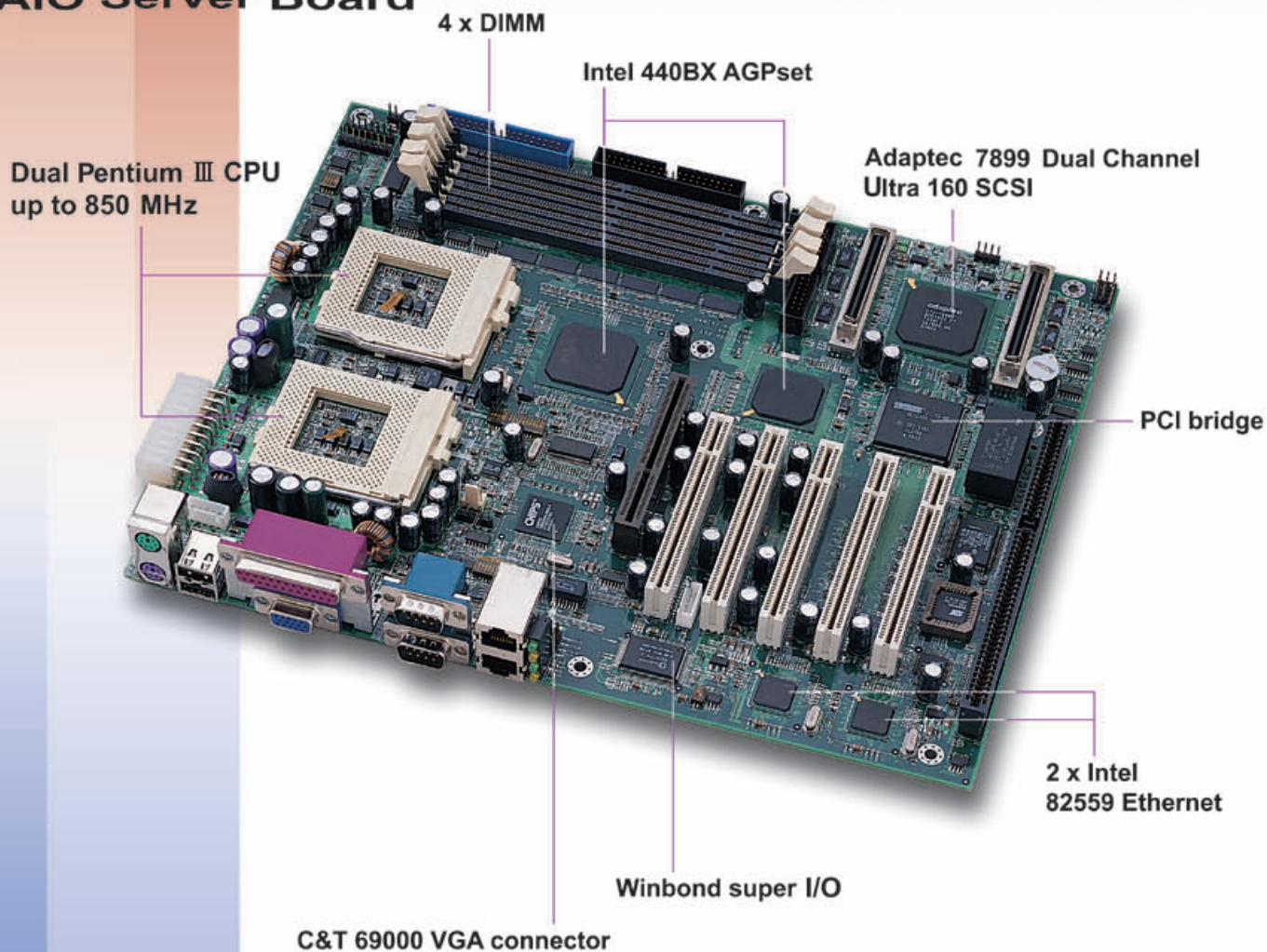


NEX 6320A

ATX Dual Socket 370 Celeron/Pentium III
AIO Server Board



Features

- ◆ Intel Dual Celeron/Pentium III CPU with 66/100MHz FSB up to 850 MHz
- ◆ 1 GB SDRAM (Max.) memory support, DIMM × 4
- ◆ Intel 440BX AGP set
- ◆ C&T 69000 AGP mode VGA Controller
- ◆ Dual Intel 82559 10/100 Base Ethernet Controller
- ◆ Adaptec 7899 Dual Channel Ultra 160 SCSI controller
- ◆ On board AGP slot × 1, ISA slot × 1, PCI slot × 5
- ◆ Standard ATX form factor

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NEX 6320A

Specifications

System Architecture

- Standard ATX form factor with dual Pentium III CPU support
- AIO board with dual channel Ultra 160 SCSI, dual channel Ethernet and VGA
- Next generation sever with industry specification

CPU Support

- Intel Dual Celeron/Pentium III (Coppermine process) CPU with 128/256K cache on die
- Brand New Socket 370 FC-PGA CPU running at 66/100MHz FSB up to 850MHz
- Support streaming SIMD instruction

Main Memory

- Support SDRAM up to 1GB (Max.)
- 168 pin DIMM socket x 4
- ECC support (single bit error correction/Multiple bit errors reporting)

BIOS

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- Advanced Configuration & Power Interface support
- Jumperless for CPU FSB
- 2M bits flash ROM, upgradeable to 4M bits

Chip Set

- Intel 82440BX AGP set
- 66/100MHz FSB support
- PCI V2.1 complied
- Optimized SDRAM support

On Board VGA

- C&T 69000 VGA controller (PCI mode)
- 2MB SDRAM on die
- Maximum Res. Color & Refresh Rate

Resolution	Colors	Refresh Rate (Hz)
1280x1024	256	60
1024x768	16bits (High color)	85, 75, 60
800x600	24bits (True color)	85, 75, 60

- Drivers support: Windows 95/98, Windows NT4.0

On Board LAN

- Intel 82559 Single Ethernet controller x 2
- 10 Base T/100 Base TX support, full duplex
- Complied with PCI V2.1, IEEE802.3, IEEE 802.3U
- Drivers support: DOS/Windows, Windows 95/98, Windows NT4.0, Netware, SCO Open Server 5.0
- Rear Panel 4 LAN LED (active/link x 2, speed x 2)

On Board SCSI

- Adaptec AIC 7899 dual channel Ultra 160 SCSI controller
- Brand New Ultra 160 SCSI support
- 80MB/s (Max.) transfer rate, up to 12 meter cable
- Backward compatible with Ultra Wide SCSI, SCSI II, etc.
- Drivers support: Windows 95/98, Windows NT4.0, SCO Open Server 5.0
- 68 pin SCSI connector x 2
- On board 4 pin header for LED

On Board I/O

- Winbond W83977 Super I/O on board
- SIO x 2, with 2 x 16C550 UARTs, optional RS422/485 x 1
- PIO x 1, Bi-directional, EPP/ECP support
- Floppy Disk controller: 5.25" 360KB/1.2MB, 3.5" 720KB /1.2MB/1.44MB/2.88MB support, 34 pin connector x 1

- On chip enhanced IDE x 2, PIO up to mode 4, DMA master up to mode 2, Ultra DMA/33 support, total 4 E.IDE Devices support, 40 pin connector x 2
- On chip keyboard, mouse controller
- On board USB port x 2
- On board buzzer x 1
- IrDA connector x 1
- On board 2 pin header for I²C
- On board reserved 4 in/4 out digital I/O
- On board 2 pin header for reset SW, 4 pin for speaker, 5 pin for keylock and power LED

ACPI Function

- Soft off
- Wake On LAN
- Wake On Keyboard
- Wake On Ring
- RTC alarm wake up
- Intruder detect input

On Board Slot

- Total 6 slots, include AGP slot x 1, ISA slot x 1, PCI slot x 5 (reserved 1 horizontal PCI slot expand for 1U chassis, 2 horizontal PCI slot expand for 2U chassis)

On Board RTC

- High precision real time clock/calendar with battery back up

On Board Solid State Disk Socket

- On board reserved power pin for DOM (DiskOnModule): 4MB~160MB, etc

System Monitor

- Winbond W83782D system monitor controller
- Eight voltage (For +3.3V, +5V, 5V STBY, +12V, -12V, Vtt and Vcore x 2)
- Two Fan speed (For CPU)
- Two temperature (For CPU)
- Drivers support: Windows 95/98, Windows NT4.0/2000

Power Input

- ATX power connector x 1

Back Panel

- PS2 connector x 2 (for Keyboard/Mouse)
- USB port x 2
- RJ45 connector x 2 (for LAN)
- 15 pin D-type connector x 1 (for VGA)
- 9 pin D-type connector x 2 (for SIO)
- 26 pin D-type connector x 1 (for PIO)
- LAN LED x 4 (active/link x 2, speed x 2)

Watchdog Timer

- 1,2,4...64 seconds time-out intervals

Dimensions

- 305mm(L)x244mm(W)

Power Requirements

- +3.3: 10A
- +5: 20A
- +12: 500mA
- 5VSTBY: 1A

Environments

- Operating temperatures: 0°C to 60°C
- Storage temperatures: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

Certification

- CE approval
- FCC Class A

Model Available

NEX 6320A

- ATX Dual Socket 370 Celeron/Pentium III AIO Main Board

NEX 6320VL2 (PCI)

- ATX Dual Socket 370 Celeron/Pentium III Main Board w/VGA/Dual LAN

NEX 6320

- ATX Dual Socket 370 Celeron/Pentium III Main Board

NEX 6320VL2 (1U)

- ATX Dual Socket 370 Celeron/Pentium III Main Board w/VGA /Dual LAN, support 1U Chassis

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