BL440ZX Net PC

Intel® Celeron™ processor-based system

Cost Effective Network PC

The BL440ZX Net PC system offers a desktop system solution featuring the Intel® Celeron™ processor with the cost reduced 82440ZX AGPset in a Net PC chassis. The Celeron processor utilizes the MMX™ technology and dynamic execution of the Pentium® II processor family to provide an excellent price/performance ratio. With integrated AGP graphics, audio, LAN, and enhanced manageability features, the BL440ZX Net PC system is a cost effective managed PC platform for both the embedded and corporate networked environments.

Enhanced Manageability

The BL440ZX system includes manageability features designed to make it easy for IT organizations to remotely monitor client system conditions and simplify connectivity setup, troubleshooting, and system maintenance. Manageability features include Intel's 82559 10/100 Mbit/s integrated LAN on the motherboard, Wake on LAN* capability on the riser, hardware manageability ASIC, an enhanced System Management (SM) BIOS, and Intel® LANDesk® instrumentation. With management software like Intel's LANDesk Client Manager, these system features allow network administrators to remotely access systems for fault prediction, recovery, software installation, and configuration tasks.

Highly Integrated, Small Footprint Solution

By integrating high performance subsystems like the Intel 10/100 Mbit/s LAN, ATI* AGP graphics, and Creative Labs* audio on the motherboard, the BL440ZX system provides a cost effective building block for corporate desktop applications. The small footprint, tamper resistant chassis, and ability to function in both the horizontal and vertical positions make the BL440ZX Net PC an excellent choice for space-constrained environments.

System Features	Benefits
• Intel® Celeron™ processor	• Meets the core needs and affordability requirements for value PC desktops
• Intel® 82440ZX AGPset	• Supports AGP, SDRAM, and ACPI
• On-board Intel 10/100 Mbit/s LAN	• Provides cost effective, high performance LAN connectivity including Wake on LAN* functionality
• On-board AGP graphics and audio	• Ensures platform compatibility and lowers total system cost
• Wired for Management (WfM) 1.1a compliant	• Simplifies asset management, new system setup and off-hours maintenance; lowers total cost of ownership in corporate applications
• Two 168-pin DIMM sockets	• Supports up to 256 MB total system memory
• Net PC chassis with diskette drive	• Small footprint, tamper resistant, 1.44 MB FDD
• Hardware management ASIC	• Allows remote monitoring of fan speed, temperature, and power supply voltages
• Hard disk drive	• Pre-qualified and certified with the system's configuration
• LANDesk® Client Manager software included with system	• Simplifies local and network management of desktop client systems

BL440ZX Net PC system

PROCESSOR/CACHE

Processor	Intel® Celeron™ processor in PPGA package
Cache	Integrated 128 MB L2 cache

SYSTEM MEMORY

Memory Size	One 64-MB SDRAM DIMM
Memory Capacity	Two 168-pin sockets for up to 256 MB (16 MB minimum)
Memory Type	Accepts 64-bit non-ECC unbuffered 66- or 100-MHz SDRAM DIMMs
DIMM Sizes	16 MB, 32 MB, 64 MB, 128 MB
Memory Voltage	3.3 volts

INTEL® 82440ZX AGPSET

Intel® 82443ZX - PCI/AGP Controller (PAC)
    Integrated AGP controller
    Integrated PCI bus mastering controller
Intel® 82371EB PIIX4e - Multifunction PCI to ISA bridge
    Dual channel enhanced IDE interface
      Supports up to 4 IDE devices
      Ultra DMA/33 and PIO Mode 3 & 4
    USB controller with two ports

INTEGRATED AGP GRAPHICS

ATI Rage Pro Turbo* 2X controller
8 MB SDRAM graphics memory

INTEGRATED PCI AUDIO

Creative Labs SoundBlaster* AudioPCI 64V

Controller	Ensoniq ES1373 AC '97
Codec	Crystal CS4297 analog
Wavetable	Downloadable 64-voice, 3D positional audio

INTEGRATED PCI LAN CONTROLLER

Intel 82559 10/100 Mbps controller
RJ-45 LAN connector

INTEGRATED I/O CONTROLLER

SMC FDC37M807QFP Super I/O

Serial port	One, RS-232C, NS16C550 compatible
Parallel port	Standard/bidirectional; ECP and EPP support
Floppy controller	1.44 MB, 2.88 MB, 3-mode support
Keyboard/mouse	PS/2

HARDWARE MONITOR

Heceta 2 ASIC	Provides temperature sensing, fan speed sensing, power supply voltage monitoring, connection to SMBus

JUMPER BLOCKS

BIOS Setup configuration
Mic In signal routing

SYSTEM BIOS

Type	Intel/AMI BIOS stored in E28F200B5 2 Mb flash memory
Features	Supports SMBIOS, ACPI, APM, Management Level 3.0, Plug and Play

DISK DRIVES

Three-mode FDD, 1.44 MB
Hard disk drive, 4.3 GB

MECHANICAL INFORMATION

BL440ZX motherboard
8.25" x 10.0" (21.0 cm x 25.4 cm)
NLX standard mounting holes

I/O connectors	one serial port, one parallel port, PS/2 keyboard and mouse, two USB, RJ-45 LAN, audio line out, microphone in

NLX riser card
NLX-compliant riser; 11" x 3"

Connectors:	Power supply, modem wake-up, fan power, diskette drive, hard disk drive, motherboard, LAN wake-up
LEDs:	Power/sleep/message, HDD activity FDD activity
Other:	Power switch
Expansion Slots	One PCI connector

Net PC desktop chassis

Height	3.5"
Width	12.5"
Depth	9.5"
Weight (no peripherals)	9.5 lbs

Drive Bays
    External 3.5", 1/3 height (1.0"); FDD installed
    Internal 3.5"; 1/3 height (1.0"); HDD installed

POWER SUPPLY RATING

Peak Power	100 watts
Continuous Power	80 watts
+3.3 V	Tolerance +5/-4%, max current 6.0 A
+5 V	Tolerance +5/-4%, max current 12.0 A
+5 V standby	Tolerance ± 5%, max current 0.72 A
+12 V	Tolerance ± 5%, max current 1.5 A
-12 V	Tolerance ± 10%, max current 0.3 A

SYSTEM ENVIRONMENTAL LIMITS

Operating Temperature	+10 °C to +35 °C
Storage Temperature	-40 °C to +70 °C
Operating Shock	2 g, ½ sine, 11 ms duration
Unpackaged Vibration	.001 g²/Hz@5Hz, sloping to .01 g²/Hz, 20-500 Hz
Electrostatic Discharge	1.0 to 20.0 kV, limited errors, no damage
Acoustical Noise:	<46 dBA @ 23 °C, peripheral dependent

REGULATIONS

System marks/ certifications:	$_c$UL$_{us}$, ERG GS, CE marking, FCC, Canada ICES-003, VCCI, C-Tick

The system shall include a CB certificate and report for international compliance (no marking associated with CB scheme).

For processor and motherboard information, see: **www.intel.com**
For NLX information, see: **www.teleport.com/~nlx**

ORDERING INFORMATION

For configurations available in your area, contact your Intel field sales representative.