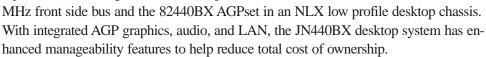
## JN440BX

Pentium® II processor-based low profile desktop

# Time to market platform solution for Pentium® II processor and 82440BX AGPset

The JN440BX offers a time to market business desktop solution featuring the Pentium® II processor with 100



#### **High Performance Business Desktop**

With faster processor speeds and 100 MHz front side bus support, the JN440BX has the power to handle the most demanding software applications. The 82440BX AGPset includes support for 100 MHz memory bus resulting in better 3-D performance and improved texture rendering applications like data visualization and web-authoring tools.

### **Enhanced Manageability**

The JN440BX includes a set of manageability features designed to make it easy for IT organizations to remotely monitor client system conditions and simplify setup, troubleshooting, and system maintenance. Manageability features include a 100Mbit/S LAN adapter with Wake on LAN\* capability, Alert on LAN\* ASIC, hardware manageability ASIC, an enhanced Desktop Management Interface (DMI) BIOS, and 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.

## Integration, Expandability, and Serviceability

By integrating high performance sub-systems like the Intel 10/100 Mbit/Sec LAN, ATI\* 2X AGP graphics with 4 MB of local frame buffer memory, and Crystal\* audio on the motherboard, the JN440BX provides a cost effective system building block for corporate desktop applications. Four bays and three full-length expansion slots provide system configuration flexibility, and the NLX chassis is designed for serviceability.

Features	Benefits
Intel Pentium II processor	High level of computing power
Intel 82440BX AGPset	Supports 66 and 100 MHz front side bus, AGP, SDRAM, and ACP
On-board 100Mbit LAN adapter	Provides cost effective, high performance LAN connectivity including Wake on LAN functionality
Alert on LAN ASIC	Sends alert messages to a management server as a result of defined trigger events: chassis intrusion, system BIOS hang
On-board AGP graphics and audio	Ensures platform compatibility and lowers total system cost
Wired for Management (WfM) 1.1 compliant	Simplifies asset management, new system setup, and off-hours maintenance
Three 168-pin DIMM sockets	Increases memory configuration flexibility, supports up to 384 MB total system memory
NLX 1.2 compliant chassis	Provides ease of integration and improves serviceability
AGP connector	Allows future graphics upgrade
Hardware management ASIC	Allows remote monitoring of fan speed, temperature, and power supply voltage



Processor/Cache

**Processor Supported** Pentium II processors with 512 KB of

integrated L2 cache

System Memory

Three 168-pin DIMM sockets for up to **Memory Capacity** 384 MB SDRAM (16 MB minimum)

**Memory Type** Accepts Intel 4-clock, 72-bit ECC, or

64-bit non-ECC, unbuffered 66 MHz or 100MHz SDRAM DIMMs

DIMM Sizes 16 MB 32 MB 64 MB 128 MB

Memory Voltage 3.3 volts

Intel 82440BX AGPset

PCI/AGP controller (PAC) supports Intel 82443BX 100 MHz or 66 MHz front

side bus frequencies

Intel 82371FRPIIX4e-Dual channel enhanced IDE interface supports up to four IDE devices Multifunction PCI to ISA Ultra DMA/33 and PIO Mode 3 & 4

USB controller

**Integrated Graphics** 

ATI Rage Pro Turbo\* 64-bit. 2X AGP Controller **Graphics Memory** 4 MB of 100 MHz SGRAM

Upgrade Connector On-board AGP connector

**Integrated Audio** 

Crystal 4235 ISA CODEC Controller

Sound Blaster\* compatible, Plug and Play, enhanced stereo full-duplex operation

Integrated LAN Controller

Controller Intel 82558

Physical Laver 10/100 Mbit/sec, Auto-Negotiation **Special Features** 

Remote Wake-on-LAN\*technology

Alert on LAN

Integrated I/O Controller

SMC FDC37C777 Controller

Two Serial Ports Async, RS-232C, PC16550A

compatible

**Parallel Port** ECP and EPP support 1.44 MB, 2.88 MB, 3-mode support

Floppy Controller Kevboard/Mouse PS/2

APM/APC Power On, Off, Sleep, Resume features

Infra Red Interface IrDA 2.0 and Consumer IR compatible

System BIOS

4 Mb Symmetrical Flash with **BIOS Type** 

Intel/Phoenix BIOS

Plug and Play, IDE drive autoconfigure, ACPI 1.0, APM 1.2, ACPI 1.0, Special Features

DMI 2.0, boot from CDROM support, ECC Support, multilingual support

**Jumpers** Single motherboard jumper block for

normal, configure, and recovery modes

**Hardware Monitor** On-board sensors for remote

monitoring of PS voltages, fan speed, and motherboard temperature

System NLX low-profile desktop chassis

4.65" (11.81 cm) Height Width 17.2" (43.75 cm) 17.5" (44.45 cm) Depth Weight (no peripherals) 18 lbs. (8.2 Kg)

**Drive Bavs** 

One external 5.25", 1/2 height (1.6") Two external 3.5", 1/3 height (1.0") One internal 3.5", 1/3 height (1.0")

**Board Style** NLX standard mounting holes

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

connector

Board size 8.8" x 13.0" (22.35 cm x 33 cm) Full length NLX standard riser Riser

> Integrated I/O connectors include: Mic-in, Line-out and single USB connector to the front of the system

Riser Size 14.5" x 4.0" (36.7 cm x 10.2 cm) Riser Expansion Slots One PCI, one ISA, and one shared

slot for either ISA or PCI

Riser Jumpers, LEDs, and Front Panel Connectors

Speaker, Reset, IrDA, power on/off, Front I/O Connectors

sleep/resume

Power/sleep, hard drive activity, and **LEDs** message waiting

**Jumpers** Tamper detect enable

NLX information is available at: http://www.teleport.com/~nlx/

**Power Supply Rating** 

Continuous Power 145W maximum

Peak Power 160W

+3.3V Tolerance +5/-4%, maximum current 14.0 A +5V Tolerance +5/-4%, maximum current 18.0 A +5V standby Tolerance +5% maximum current 0.72 A +12V Tolerance ±5%, maximum current 6.0 A -5V Tolerance ±10%, maximum current 0.3 A -12\/ Tolerance ±10%, maximum current 0.8 A

**System Environmental Limits** 

+10°C to +35°C Operating Temperature Storage Temperature -40°C to +70°C Operating Shock Half sine, 2G, 11 msec

.001 g²/Hz@5Hz, slope: .01 g²/Hz, **Unpackaged Vibration** 

20-500Hz

Electrostatic Discharge 1.0 to 20.0 KV, limited errors, no

Regulations

System marks/certifications:

UL, cUL, TUV GS, N, S, F, D, CE marking, FCC, Canada ICES-003.

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

**Ordering Information** 

For configurations available in your area, please contact your Intel

field sales representative.

Reference Intel's web page: http://www.intel.com



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