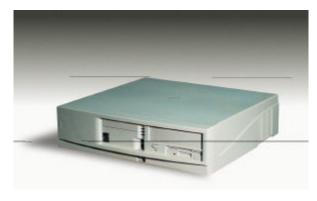
KU440EX PRELIMINARY

CeleronTM processor based low profile desktop

Cost Effective Basic PC for Business

The KU440EX offers a business desktop solution featuring the Celeron™ processor with the cost reduced 82440EX AGPset in an NLX low profile desktop chassis. The Celeron processor combines MMX™ technology with the dynamic execution of the Pentium® II processor to provide good performance for the business desktop. With integrated AGP graphics, audio, LAN, and enhanced manageability features, the KU440EX is a cost effective managed PC platform for the corporate networked environment.



Enhanced Manageability

The KU440EX 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 82558 10/100 Mbit/s integrated LAN on motherboard, Wake on LAN* capability on riser, hardware manageability ASIC, an enhanced System Management (SM) 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* AGP graphics, and Crystal* audio on the motherboard, the KU440EX provides a cost effective system building block for corporate desktop applications. Four bays and three expansion slots provide system configuration flexibility and the NLX chassis is designed to improve serviceability.

System Features

- Intel CeleronTM processor
- Intel 82440EX AGPset
- On-board Intel 10/100 Mbit LAN (optional)
- On-board AGP graphics and audio
- Wired for Management (WfM) 1.1a compliant
- Two 168-pin DIMM sockets
- NLX 1.2 compliant chassis
- Hardware management ASIC

Benefits

- Meets the core needs and affordability requirements for Basic PC corporate desktops
- Supports AGP, SDRAM, and ACPI
- Provides cost effective, high performance LAN connectivity including Wake on LAN* functionality
- Ensures platform compatibility and lowers total system cost
- Simplifies asset management, new system setup, and off-hours maintenance and lowers total cost of ownership in corporate applications.
- Supports up to 256 MB total system memory
- Provides ease of integration and improves serviceability
- Allows remote monitoring of fan speed, temperature, and power supply voltage

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PROCESSOR/CACHE

Processors Supported Standard system configurations ship with

Celeron™ processor. Motherboard supports Pentium® II processors with 66 MHz front side bus and Celeron

processors

SYSTEM MEMORY

Memory Type

Memory Capacity 2 168-pin DIMM sockets for up to 256 MB

SDRAM (8 MB minimum)

Memory Size 32 MB non-ECC SDRAM DIMM

> with serial presence detect standard Accepts Intel 4-clock 64-bit non-ECC unbuffered 66-MHz SDRAM DIMMs

DIMM Sizes 8 MB, 16 MB, 32 MB, 64 MB, 128 MB

Memory Voltage 3.3 volts

INTEL 82440EX AGPSET

Intel 82443EX - 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

INTEGRATED GRAPHICS

Controller ATI Rage IIc* 64-bit, 1X AGP

Graphics Memory 2 or 4 MB SGRAM

Video Port ATI Multimedia Channel Connector Plug & Play Monitor Supports DDC1, DDC2B+

INTEGRATED AUDIO

Controller Crystal 4235 ISA CODEC

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

operation

INTEGRATED LAN CONTROLLER

Controller Intel 82558

10/100 Mbit/S, Auto-Negotiation Physical Layer Special Features Remote Wake on LAN* technology

INTEGRATED I/O CONTROLLER

Controller SMC FDC37C707

Async, RS-232C, PC16550A compatible One Serial Port

ECP and EPP support Parallel Port

Floppy Controller 1.44 MB, 2.88 MB, 3-mode support

Keyboard/Mouse PS/2

APM/APC Power On, Off, Sleep, Resume features Infra Red Interface IrDA 1.1 and Consumer IR compatible Real Time Clock Century Reg., +/- 13 min/yr accuracy

SYSTEM BIOS

2 Mb Symmetrical Flash with **BIOS Type**

Intel/Phoenix SM BIOS

Special Features Plug and Play, IDE drive autoconfigure,

> ACPI 1.0 (with Windows* 98), APM 1.2, DMI 2.0, boot from CDROM 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

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

Drive Bays

External 5.25", 1/2 height (1.6") External 3.5", 1/3 height (1.0") 2 Internal 3.5"; 1/3 height (1.0")

Board Style NLX standard mounting holes

Integrated I/O connectors include:

one serial port (with header for second serial port), one parallel port, PS/2 keyboard and mouse connectors, line out and microphone connectors, two USB connectors, VGA connector, one RJ-45 LAN connector (optional)

Board size 8.25" x 10.0" (21.0 cm x 25.4 cm)

Full length NLX standard riser Riser

Headers: speaker, reset, IrDA, power

on/off, and sleep/resume

LEDs: Power/sleep, hard drive activity,

and message waiting

Riser Size 14.5" x 4.0" (36.7 cm x 10.2 cm)

One PCI, one ISA, and one shared slot for Riser Expansion Slots

either ISA or PCI

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

POWER SUPPLY RATING

Tolerance +5/-4%, maximum current 14.0 A +3.3V +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 -12V Tolerance \pm 10%, maximum current 0.8 A

SYSTEM ENVIRONMENTAL LIMITS

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

.001g2/Hz@5Hz, slope: .01g²/Hz, 20-500Hz **Unpackaged Vibration** Electrostatic Discharge 1.0 to 20.0 KV, limited errors, no damage

REGULATIONS

System marks/certifications:

(c)UL(us), TUV GS, CE marking, FCC,

Canada ICES-003, VCCI

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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