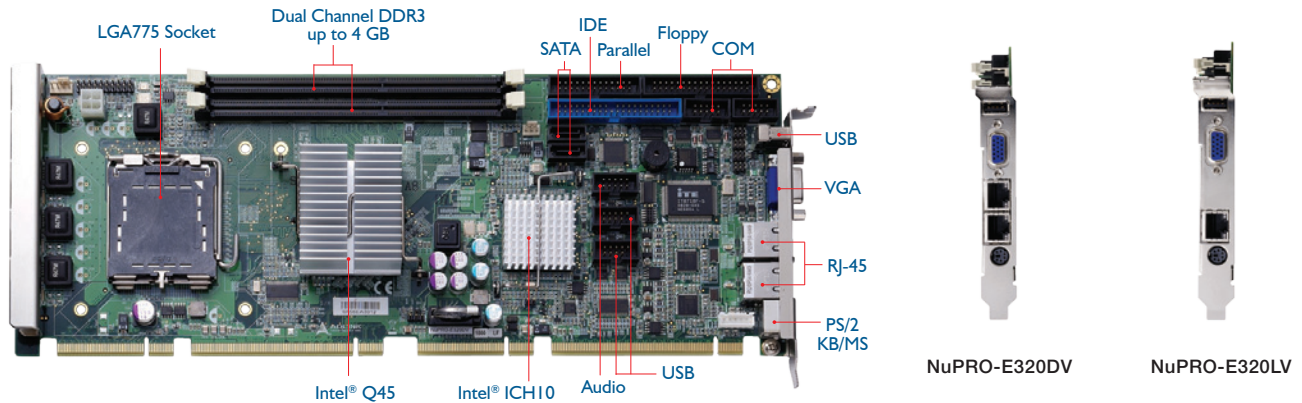


# NuPRO-E320

PICMG® 1.3 Full-Size LGA775 Intel® Core™ 2 Quad/Duo Processor-based SHB



## Features

- Intel® Q45 + ICH10 chipset supports up to 1333 MHz FSB LGA775 Intel® Core™ 2 Quad/Duo processor
- Dual-Channel DDR3 800/1066 MHz, up to 4 GB
- One PCI Express® x16 and four PCI Express® x1 (or one x4) link to backplane
- Dual Gigabit Ethernet via PCI Express® x1 bus

## Specifications

### Processor & System

CPU	Processor & System
Intel® Core™ 2 Quad Q9400, 2.66 GHz, 1333 MHz FSB, 6 MB L2 Cache, 45nm, 95W TDP, LGA775	
Intel® Core™ 2 Duo E8400, 3.0 GHz, 1333 MHz FSB, 6 MB L2 Cache, 45nm, 65W TDP, LGA775	
Intel® Core™ 2 Duo E7400, 2.8 GHz, 1066 MHz FSB, 3 MB L2 Cache, 45nm, 65W TDP, LGA775	
Intel® Pentium® Dual Core E6500, 2.93 GHz, 1066 MHz FSB, 2 MB L2 Cache, 45nm, 65W TDP, LGA775	
Intel® Core™ 2 Duo E6400, 2.13 GHz, 1066 MHz FSB, 2 MB L2 Cache, 65nm, 65W TDP, LGA775	
Intel® Pentium® E5300, 2.6 GHz, 800 MHz FSB, 2 MB L2 Cache, 45nm, 65W TDP, LGA775 (2C)	
Intel® Core™ 2 Duo E4300, 1.8 GHz, 800 MHz FSB, 2 MB L2 Cache, 65nm, 65W TDP, LGA775	
Intel® Celeron® E3400, 2.6 GHz, 800 MHz FSB, 1 MB L2 Cache, 45nm, 65W TDP, LGA775 (2C)	
Intel® Pentium® E2160, 1.8 GHz, 800 MHz FSB, 1 MB L2 Cache, 65nm, 65W TDP, LGA775 (2C)	
Intel® Celeron® E1500, 2.2 GHz, 800 MHz FSB, 512 KB L2 Cache, 65nm, 65W TDP, LGA775 (2C)	
Intel® Celeron® 440, 2.0 GHz, 800 MHz FSB, 512 KB L2 Cache, 65nm, 35W TDP, LGA775 (1C)	
<b>Chipset</b>	Intel® Q45 + ICH10
<b>Memory</b>	Dual-Channel DDR3 800/1066 MHz, up to 4 GB
<b>TPM</b>	Infineon® SLB9635 TT1.2 (optional)
<b>BIOS</b>	AMI BIOS 16 Mb flash memory
<b>Watchdog Timer</b>	1-255 sec. or min. software programmable and can generate system reset
<b>Hardware Monitor</b>	CPU/System temp. fan speed, onboard DC voltages
<b>Operating Systems</b>	Windows® XP, Vista, 7 32/64-bit Fedora™ 8, Red Hat Enterprise Linux 5

## I/O Interfaces

<b>Serial ATA</b>	4x SATA 3 Gb/s ports (2x onboard headers, 2x backplane)
<b>USB</b>	9x USB 2.0 ports (1x faceplate, 4x onboard pin headers, and 4x backplane)
<b>KB/MS</b>	1x PS/2 keyboard/mouse
<b>Floppy</b>	1x Floppy
<b>Parallel Port</b>	1x LPT
<b>Serial Port</b>	1x RS-232, 1x RS-232/422/485/485+

## Audio

<b>Audio Codec Interface</b>	Realtek ALC262 support by DB-Audio2 daughter board Pin header for High Definition Audio interface
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## Display

<b>Graphics</b>	Intel® Graphics Media Accelerator 4500
<b>VGA</b>	Up to 2048 x 1536 @ 75 Hz (QXGA)

## Ethernet

<b>Controller</b>	Dual Intel® 82574L PCIe® network controllers (optional) 10/100/1000Base-T dual-Gigabit Ethernet
<b>Interface</b>	PCIe®x1 bus
<b>Wake On LAN</b>	Support on LAN1

## Mechanical and Environmental

<b>Form Factor</b>	Full-Size PICMG® 1.3 System Host Board
<b>Dimensions</b>	338 mm x 126 mm (L x W)
<b>Operating Temp.</b>	0°C to 60°C
<b>Storage Temp.</b>	-20°C to 80°C
<b>Certifications</b>	CE, FCC Class A
<b>Relative Humidity</b>	10% to 90%, non-condensing

## Ordering Information

Model Number	Description/Configuration
NuPRO-E320DV	PICMG® 1.3 Full-Size LGA775 Intel® Core™ 2 Quad/Duo Processor-based SHB with dual-channel DDR3, TPM, dual GbE, SATA II
NuPRO-E320LV	PICMG® 1.3 Full-Size LGA775 Intel® Core™ 2 Quad/Duo Processor-based SHB with dual-channel DDR3, GbE, SATA II

Note: CPU, Memory module and Cooler kit are not included.

## Optional Accessories

Model Number	Description/Configuration
LGA775 1U CPU Cooler	LGA775 1U Thermal Module
LGA775 3U CPU Cooler	LGA775 3U Thermal Module
Backplane	Backplane for 3U CPU cooler
DB-Audio2	High Definition audio daughter board with mic-in/line-in/line-out

## Packing List

NuPRO-E320	1x COM+Parallel port cables with bracket
1x Y-cable for PS/2 keyboard/mouse	2x SATA data cables
1x UltraATA 100 IDE cable	1x dual-plug SATA power cable
1x Floppy cable	Driver DVD
1x USB 2.0 cable with bracket	User's manual
1x COM port cable with bracket	

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