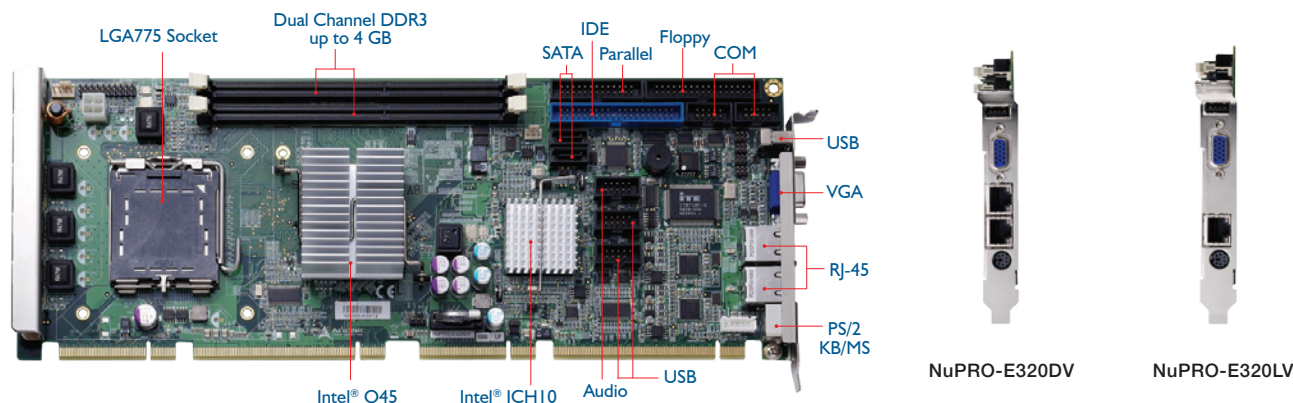


# NuPRO-E320

PICMG® I.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               | 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)      |
| Chipset           | Intel® Q45 + ICH10                                                                            |
|                   | Dual-Channel DDR3 800/1066 MHz, up to 4 GB                                                    |
| Memory            | Infineon® SLB9635 TT1.2 (optional)                                                            |
| TPM               | AMI BIOS 16 Mb flash memory                                                                   |
| BIOS              | 1-255 sec. or min. software programmable and can generate system reset                        |
| Watchdog Timer    | CPU/System temp. fan speed, onboard DC voltages                                               |
| Hardware Monitor  | Windows® XP, Vista, 7 32/64-bit                                                               |
| Operating Systems | Fedora™ 8, Red Hat Enterprise Linux 5                                                         |

## I/O Interfaces

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

## Audio

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| Audio Codec Interface | Realtek ALC262 support by DB-Audio2 daughter board<br>Pin header for High Definition Audio interface |
|-----------------------|------------------------------------------------------------------------------------------------------|

## Display

|          |                                        |
|----------|----------------------------------------|
| Graphics | Intel® Graphics Media Accelerator 4500 |
| VGA      | Up to 2048 x 1536 @ 75 Hz (QXGA)       |

## Ethernet

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

## Mechanical and Environmental

|                   |                                        |
|-------------------|----------------------------------------|
| Form Factor       | Full-Size PICMG® I.3 System Host Board |
| Dimensions        | 338 mm x 126 mm (L x W)                |
| Operating Temp.   | 0°C to 60°C                            |
| Storage Temp.     | -20°C to 80°C                          |
| Certifications    | CE, FCC Class A                        |
| Relative Humidity | 10% to 90%, non-condensing             |

## Ordering Information

| Model Number | Description/Configuration                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------|
| NuPRO-E320DV | PICMG® I.3 Full-Size LGA775 Intel® Core™ 2 Quad/Duo Processor-based SHB with dual-channel DDR3, TPM, dual GbE, SATA II |
| NuPRO-E320LV | PICMG® I.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                                           |
| Backplate            | Backplate 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     |                                          |