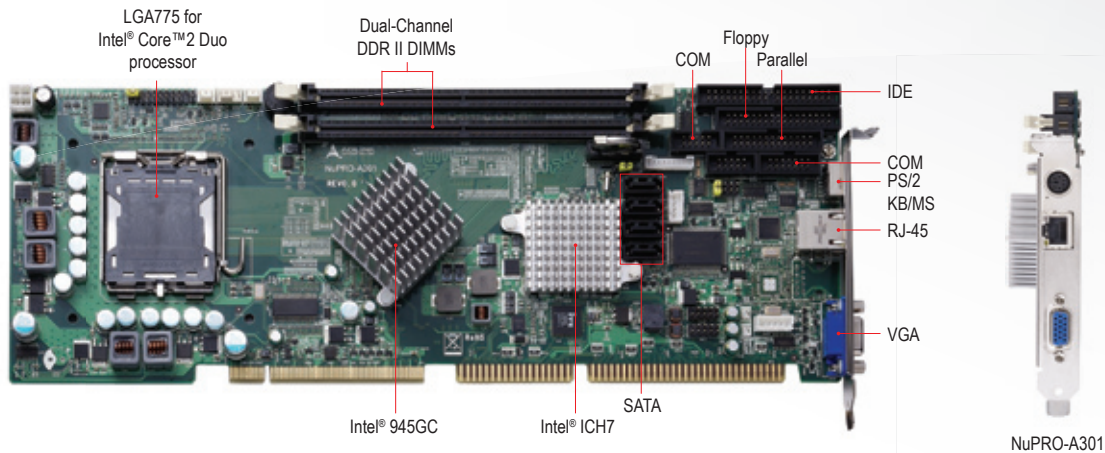


# NuPRO-A301

PICMG® 1.0 Full-Size LGA775 Intel® Core™2 Duo SBC



## Features

- PICMG® 1.0 Full-Size SBC
- Intel® 945GC + ICH7 chipset supports up to 800 MHz FSB, LGA775 Intel® Core™2 Duo processor
- Dual-Channel DDR2 533/667 MHz, up to 2 GB

## Specifications

### Processor System

CPU	Intel® Core™2 Duo E4300, 1.8GHz, 800MHz FSB, 2MB L2 Cache, 65nm, 65W TDP, LGA775 Intel® Pentium® Dual Core E2160, 1.8GHz, 800MHz FSB, 1MB L2 Cache, 65nm, 65W TDP, LGA775 Intel® Celeron® 440, 2.0GHz, 800MHz FSB, 512KB L2 Cache, 65nm, 35W TDP, LGA775 Intel® Pentium® 4 651, 3.4GHz, 800MHz FSB, 2MB L2 Cache, 65nm, 95W TDP, LGA775 Intel® Pentium® 4 551, 3.4GHz, 800MHz FSB, 1MB L2 Cache, 90nm, 84W TDP, LGA775 Intel® Pentium® 4 531, 3.0GHz, 800MHz FSB, 1MB L2 Cache, 90nm, 84W TDP, LGA775 Intel® Celeron® D 352, 3.2GHz, 533MHz FSB, 512KB L2 Cache, 65nm, 95W TDP, LGA775 Intel® Celeron® D 341, 2.93GHz, 533MHz FSB, 256KB L2 Cache, 90nm, 84W TDP, LGA775
-----	---

Chipset	Intel® 945GC + ICH7
Memory	Dual-Channel DDR2 533/667 MHz, up to 2 GB
BIOS	AMI BIOS 16 Mb flash memory
Watchdog Timer	1-255 sec or 1-255 min software programmable and can generate system reset
Hardware Monitor	CPU/System temperature, fan speed and onboard DC voltages
Operating Systems	Windows® XP/Vista, Fedora™ 8

### I/O Interfaces

IDE (PATA)	1x ATA 33/66/100
Serial ATA	4x Serial ATA II ports with 3.0 Gbps data transfer rate
USB	4x USB 2.0 ports on onboard pin header
KB/MS	1x PS/2 keyboard/mouse
Floppy	1x Floppy
Parallel Port	1x LPT
Serial Port	1x RS-232, 1x RS-232/422/485

### Audio

Audio Codec	Realtek ALC655 supported by IP-ALCS20
Interface	Pin header for AC'97 audio interface

### Display

Graphics	Intel® Graphics Media Accelerator 950
VRAM	224MB
CRT	Up to 2048 x 1536 @ 75 Hz (QXGA)

### Ethernet

Controller	Single Intel® 82574L PCIe® network controller 10/100/1000Base-T Gigabit Ethernet
Interface	PCIe®x1 Bus
Wake On LAN	Yes

### Mechanical and Environmental

Form Factor	Full-Size PICMG® 1.0 Single Board Computer
Dimensions	338 mm x 122 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-condensed

## Ordering Information

Model Number	Description/Configuration
NuPRO-A301	Full-Size PICMG® 1.0 LGA775 Intel® Core™2 Duo SBC with dual-channel DDR2, GbE, SATA II

Note 1: CPU, Memory module and Cooler kit are not included.

## Optional Accessories

Model Number	Description/Configuration
1U CPU Cooler + backplate	LGA775 1U Thermal Module + backplate
3U CPU Cooler	LGA775 3U Thermal Module
Backplate for 3U Cooler	Backplate for 3U CPU cooler
Copper-core Cooler	LGA 775 copper-core cooler with backplate
IP-ALCS20	AC'97 audio daughter board with mic-in/line-in/line-out

## Packing List

NuPRO-A301	1x Parallel port cable with bracket
1x Y-cable for PS/2 keyboard/mouse	2x SATA data cable
1x UltraATA 100 IDE cable	2x SATA power cable
1x Floppy cable	Driver CD
1x USB 2.0 cable bracket	User's manual
1x RS-232/422/485 cable with bracket	