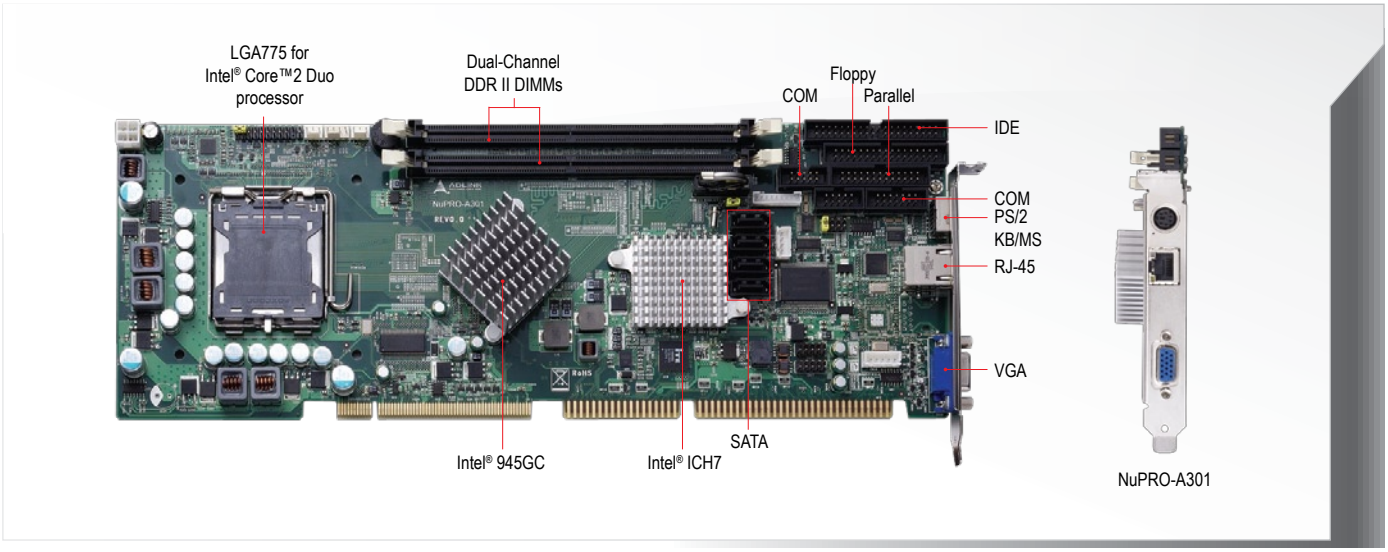
NuPRO-A301

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 E7400, 2.8 GHz, 1066MHz FSB, 3MB L2 Cache, 45nm, 65W TDP, LGA775
	Intel® Pentium® Dual Core E6500, 2.93 GHz, 1066MHz FSB, 2MB L2 Cache, 45nm, 65W TDP, LGA775
	Intel® Pentium® E5300, 2.6 GHz, 800MHz FSB, 2MB L2 Cache, 45nm, 65W TDP, LGA775 (2C)
	Intel® Core™2 Duo E4300, 1.8 GHz, 800MHz FSB, 2MB L2 Cache, 65nm, 65W TDP, LGA775
	Intel® Celeron® E3400, 2.6 GHz, 800MHz FSB, 1MB L2 Cache, 45nm, 65W TDP, LGA775 (2C)
	Intel® Pentium® E2160, 1.8 GHz, 800MHz FSB, 1MB L2 Cache, 65nm, 65W TDP, LGA775 (2C)
	Intel® Celeron® E1500, 2.2 GHz, 800MHz FSB, 512K L2 Cache, 65nm, 65W TDP, LGA775 (2C)
	Intel® Celeron® 440, 2.0 GHz, 800MHz FSB, 512KB L2 Cache, 65nm, 35W TDP, LGA775 (1C)
	Intel® Pentium® 4 651, 3.4 GHz, 800MHz FSB, 2MB L2 Cache, 65nm, 95W TDP, LGA775 (1C)
	Intel® Celeron® D 352, 3.2 GHz, 533MHz FSB, 512KB L2 Cache, 65nm, 95W TDP, LGA775 (1C)
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 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 SATA 3 Gb/s ports
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 daughter board
Interface	Pin header for AC'97 audio interface

Display

Graphics	Intel® Graphics Media Accelerator 950
VRAM	224MB
VGA	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 SBC
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-condensing

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
LGA775 1U CPU Cooler	LGA775 1U Thermal Module
LGA775 3U CPU Cooler	LGA775 3U Thermal Module
Backplate for 3U Cooler	Backplate for 3U CPU cooler
IP-ALCS20	AC'97 audio daughter board with mic-in/ line-in/line-out

Packing List

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

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