



Features

- PICMG® 1.0 Full-Size SBC
- Supports up to 1066 MHz FSB LGA775 Intel® Core™2 Duo processor
- Intel® Q963/Q965 + ICH8 chipset with Dual-Channel DDR2 667/533 MHz
- Supports PCI Express® x1 Gigabit Ethernet port

Specifications

Processor System

CPU	Processor
	Intel® Core™2 Duo E6400, 2.13GHz, 1066MHz FSB, 2MB L2 Cache, 65nm, 65W TDP, LGA775
	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® Q963/Q965 + Intel® ICH8 chipset
Memory	Dual-Channel DDR2 667/533 MHz, up to 4 GB
BIOS	Award 8 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/Server 2003, Fedora™ Core 7

I/O Interfaces

IDE (PATA)	1x UltraATA 66/100/133
Serial ATA	2x Serial ATA II ports with 3.0 Gbps data transfer rate
USB	4x USB 2.0 ports by onboard pin headers
KB/MS	1x PS/2 keyboard/mouse
Parallel Port	1x LPT
Serial Port	1x RS-232, 1x RS-232/422/485

Audio

Audio Codec Interface	Realtek® ALC883 Codec Audio pin header
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Display

Graphics	Intel® Q963/965 integrated VGA (GMA 3000)
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Ethernet

Controller	Onboard Marvell 88E8056 GbE controller 10/100/1000Base-T Gigabit Ethernet
Interface	x1 PCIe® Bus
Wake On LAN	Yes

Mechanical and Environmental

Form Factor	Standard 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-condensed

Ordering Information

Model Number	Description/Configuration
NuPRO-852LV	PICMG® 1.0 Full-Size LGA775 Intel® Core™2 Duo SBC with Q963/Q965, DDR II, GbE, SATA II, IDE
NuPRO-852DV	PICMG® 1.0 Full-Size LGA775 Intel® Core™2 Duo SBC with Q965, DDR II, Dual GbE, SATA II, IDE

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	Backplate for 3U CPU cooler
Audio Cable	Audio Cable for NuPRO-852

Packing List

NuPRO-852	1x COM+Parallel port cables with bracket
1x Y-cable for PS/2 keyboard/mouse	2x SATA data cable
1x UltraATA 100 IDE cable	2x SATA power cable
1x USB 2.0 cable bracket	Driver CD
1x COM port cable with bracket	User's manual