

# NuPRO-851 Series

PICMG® 1.0 Full-Size LGA775 Intel® Pentium® 4 SBC with DDR2, Dual-GbE, and Serial ATA ⚡



## Features

- PICMG® 1.0 Full-Size SBC
- High computing capability, supports 800 MHz FSB LGA775 Intel® Pentium® 4 processor with Intel® Hyper-Threading technology
- Intel® 915GV + ICH6 chipset with Dual-Channel DDR2 533/400 MHz
- High communication bandwidth, supports two PCI Express® x1 Gigabit Ethernet ports
- Supports Serial ATA (1.5 Gbps) for high-speed storage devices

## Ordering Information

|             |  |
|-------------|--|
| NuPRO-851LV | PICMG® 1.0 Full-Size LGA775 Intel® Pentium® 4 SBC with DDR2, GbE and Serial ATA      |
| NuPRO-851DV | PICMG® 1.0 Full-Size LGA775 Intel® Pentium® 4 SBC with DDR2, Dual-GbE and Serial ATA |

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

## Optional Accessories

| Model Number               | Description/Configuration                               |
|----------------------------|---|
| 1U CPU Cooler + Back Plate | LGA775 1U Thermal Module + Back Plate                   |
| 2U CPU Cooler + Back Plate | LGA775 2U Thermal Module + Back Plate                   |
| 3U CPU Cooler + Back Plate | LGA775 3U Thermal Module + Back Plate                   |
| Backplane for 3U Cooler    | LGA775 Retention Module                                 |
| DB-AC97S                   | AC'97 audio kit with mic-in, line-in and line-out ports |

## Specifications

### System

|                  |   |
|------------------|---|
| CPU              | LGA775 Intel® Pentium® 4/Celeron® D processor (90 mm)<br>Support Hyper-Threading Technology |
| FSB              | 800/533 MHz   |
| Chipset          | Intel® 915GV + ICH6   |
| Memory           | Dual-Channel DDR2 533/400 MHz, up to 2 GB   |
| BIOS             | Award 4 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                                   |

### I/O Interfaces

|            |  |
|------------|--|
| IDE        | One channel UltraATA 66/100                                  |
| Serial ATA | Two Serial ATA ports with 1.5 Gbps data transfer rate        |
| USB        | Two USB 2.0 ports by onboard pin header                      |
| Multi I/O  | Two RS-232, one LPT, one Floppy, and one PS/2 keyboard/mouse |

### Display

|     |                                       |
|-----|---------------------------------------|
| VGA | Intel® 915GV integrated VGA (GMA 900) |
|-----|---------------------------------------|

### Ethernet

|             |  |
|-------------|--|
| Gigabit LAN | Onboard two Marvell 88E8052 GbE controllers support 10/100/1000Base-T dual-Gigabit Ethernet via x1 PCIe® Bus |
|-------------|--|

### Mechanical and Environmental

|                     |   |
|---------------------|---|
| Form Factor         | Standard Full-Size PICMG® CPU board<br>PICMG® 1.0 |
| Dimensions          | 338 mm x 122 mm (L x W)                           |
| Operating Temp.     | 0°C to 60°C                                       |
| Storage Temp.       | -20°C to 80°C                                     |
| Certificate or Test | CE, FCC class A                                   |