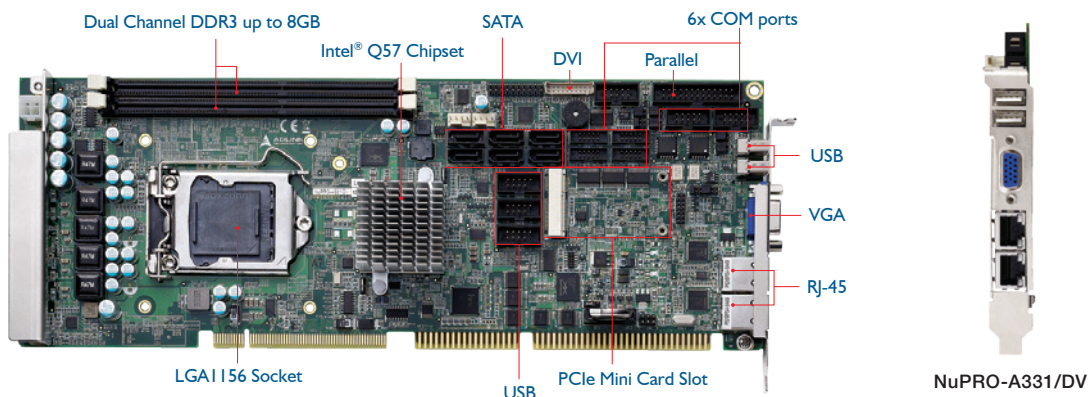


# NuPRO-A33 I

PICMG® 1.0 Full-Size LGA1156 Intel® Core™ i7/i5/i3/Pentium® Processor-based SBC



## Features

- LGA1156 Intel® Core™ i7/i5/i3/Pentium® Dual Core Processor
- Intel® Q57 Express Chipset supports PCI Express 2.0
- Intel® Matrix Storage Technology, supports RAID 0/1/5/10
- Dual-Channel DDR3-1066/1333 MHz, up to 8GB
- PCIe Mini Card slot
- 6x COM ports (including 2x RS-232/422/485/485+)

## Specifications

### Processor & System

|                   |                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------|
| CPU               | Intel® Core™ i7-860 Processor; 2.80 GHz, 8M Cache, 45nm, 95W TDP, LGA1156, No Graphics (4 cores/8 threads) |
|                   | Intel® Core™ i5-750 Processor; 2.66 GHz, 8M Cache, 45nm, 95W TDP, LGA1156, No Graphics (4 cores/8 threads) |
|                   | Intel® Core™ i5-660 Processor; 3.33 GHz, 4M Cache, 32nm, 73W TDP, LGA1156 (2 cores/4 threads)              |
|                   | Intel® Core™ i3-540 Processor; 3.06 GHz, 4M Cache, 32nm, 73W TDP, LGA1156 (2 cores/4 threads)              |
|                   | Intel® Pentium® Dual Core G6950 Processor; 2.80 GHz, 3M Cache, 32nm, 73W TDP, LGA1156 (2 cores/4 threads)  |
| Chipset           | Intel® Q57 Express Chipset (Ibex Peak)                                                                     |
| Memory            | 2x 240-pin DIMM sockets<br>Dual-channel DDR3 1066/1333 MHz, up to 8 GB                                     |
| TPM               | Infineon® SLB9635 TT1.2 (optional)                                                                         |
| BIOS              | AMIBIOS® 8MB SPI flash memory                                                                              |
| Watchdog Timer    | 1-255 sec. or min. software programmable, can generate system reset                                        |
| Hardware Monitor  | CPU/System temperature, fan speed and onboard DC voltages                                                  |
| Operating Systems | Windows® XP, 7 32/64-bit, Server 2008<br>Fedora™ 12, Red Hat Enterprise Linux 5                            |

## I/O Interfaces

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Serial ATA      | 6x SATA 3 Gb/s ports<br>Intel® Matrix Storage Technology, supports RAID 0/1/5/10 |
| Expansion Slots | 1x PCIe Mini Card slot                                                           |
| USB             | 8x USB 2.0 ports (2x faceplate, 6x onboard pin headers)                          |
| KB/MS           | 1x onboard pin header for PS/2 keyboard/mouse                                    |
| Parallel Port   | 1x LPT                                                                           |
| Serial Port     | 4x RS-232, 2x RS-232/422/485/485+                                                |

## Audio

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

## Display

|                     |                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------|
| Integrated Graphics | Integrated in i5-660/i3-540/G6950 processor                                                   |
| External Graphics   | PCI Express Mini Card slot for optional mPCIe-8770<br>Onboard pin header for DVI-D (optional) |

## Ethernet

|             |                                                           |
|-------------|-----------------------------------------------------------|
| Controller  | Dual Intel® 82574L Gigabit Ethernet Controller (optional) |
| Interface   | PCIe x1 bus                                               |
| Wake On LAN | Support on LAN1                                           |

## 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-A33 I/DV | PICMG® 1.0 Full-Size LGA1156 Intel® Core™ i7/i5/i3/Pentium® Processor-based SBC with DDR3, Dual-GbE, mini PCIe slot, TPM, DVI |

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

## Optional Accessories

| Model Number                               | Description/Configuration                                         |
|--------------------------------------------|-------------------------------------------------------------------|
| LGA1156 1U CPU Cooler                      | LGA1156 1U Thermal Module                                         |
| LGA1156 2U CPU Cooler                      | LGA1156 2U Thermal Module                                         |
| LGA1156 3U CPU Cooler                      | LGA1156 3U Thermal Module                                         |
| DB-Audio2                                  | High Definition Audio daughter board with Mic-in/Line-in/Line-out |
| mPCIe-8770                                 | PCIe 2D VGA Display Card                                          |
| DVI cable with bracket                     |                                                                   |
| LPT cable with bracket                     |                                                                   |
| PS/2 cable with bracket for keyboard/mouse |                                                                   |

## Packing List

|                                   |                               |
|-----------------------------------|-------------------------------|
| NuPRO-A33 I                       | 1x USB 2.0 cable with bracket |
| 3x 2-port COM cables with bracket | 2x SATA data cable            |
| Driver DVD                        | User's manual                 |