

# NuPRO-842 Series

Full-size Pentium® 4 SBC with VGA, Dual Gigabit Ethernet, USB 2.0 ❖



Single Board Computers

- 1 Embedded Modules
- 2 CompactPCI SBCs
- 3 Peripheral Cards
- 4 CompactPCI Platforms
- 5
- 6 Embedded Boards
- 7 Industrial Chassis
- 8 Add-on cards



## Features

- High computing capability, supports 533MHz FSB hyper-threading Pentium 4
- Supports Low Power Pentium 4-M CPU 2.4GHz+
- High communication bandwidth, supports dual Gigabit Ethernet ports
- Support USB 2.0 and generic features, including VGA, COM, KB, mouse and hardware monitoring
- 32-bit/33MHz MiniPCI bus is reserved for functional expansion
- DVO interface is reserved for digital LCD interfaces (LVDS or DVI) expansion

## Ordering Information

NuPRO-842DV	PICMG Full-Size Pentium 4 SBC with AGP-VGA/Dual GbE x 2 (Include Cooler Kit)
NuPRO-842LV	PICMG Full-Size Pentium 4 SBC with AGP-VGA/Single GbE x 1 (Include Cooler Kit)

Note 1: CPU, RAM, and HDD are not included.

### Optional Accessories

Model Number	Description/Configuration
DB-842DVI	DVI/LVDS/TTL LCD daughter board
DB-AC97S	Audio daughter board with Line-in, Line-out, MIC-in connectors

## Specifications

### CPU / Core Logic

CPU	Intel Socket 478 FC-PGA Pentium 4 (supports 2.4GHz to 3.06GHz and higher) Intel Socket 478 FC-PGA Mobile Pentium 4 (supports 1.4GHz to 2.4GHz and higher)
FSB	400/533MHz
Chipset	Intel® 845GV Integrated Gfx Memory Control Hub (GMCH) with ICH4
RAM	Two 184-pin DIMM sockets, up to 2GB unbuffered non-ECC DDR-200/266 memory
BIOS	Award 4Mb flash memory

### I/O Interfaces

IDE	ATA-100, dual channels
MiniPCI Interface	One MiniPCI Rev 1.0 compatible Type III slot for functions expansion such as SCSI
USB	1 USB port via on-board bracket, 4 USB pin header on board Compliant with USB Specification Rev. 2.0. Individual over-current protection, USB ports provide 0.5A @ 5V power for peripheral devices with over current protection
Super I/O	Winbond W83627HF, two 16C550 UART compatible RS-232 COM ports with ESD protection up to 2KV. Printer Port Supported, 1x IrDA by pin-header (SIR mode)
Floppy	Standard 34-pin connector
Audio	Integrated Audio Controllers with AC'97 Interface, optional with DB-AC97S board
Hardware Monitoring	Monitoring CPU temperatures, FAN speed, system temperature, and Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable, can generate system resets

### VGA

Display	Integrated 2D/3D Graphics Accelerator, shared Memory size up to 64MB Built in 80-pin header for DVO LCD interface
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### Ethernet

Ethernet	10/100/1000Mbps Ethernet ports by Intel 82540EM Ethernet Controller
Features	Intel PXE pre-boot on Ethernet

### Mechanical and Environmental

Form Factor	Standard Full-Size PICMG CPU Card PICMG 1.0
Dimensions	338mm x 122mm (L x W)
Operating Temp.	0 to 55 °C
Storage Temp.	-20 to 80 °C
Certificate or Test	CE, FCC class A

### Other Features

External Power Connector	One ATX-12 4-pin connector
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