NuPRO-842/P Series

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



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*
- *Supports 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 interface (LVDS or DVI) expansion*

Ordering Information

NuPRO-842DV/P	PICMG Full-Size Pentium 4 SBC with AGP-VGA/Dual GbE includes cooler kit
NuPRO-842LV/P	PICMG Full-Size Pentium 4 SBC with AGP-VGA/Single GbE includes cooler kit

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) Prescott up to 2.8GHz
	Intel Socket 478 FC-PGA Mobile Pentium 4 (supports 1.4GHz to 2.4GHz and higher)
FSB	400/533MHz
Chipset	Intel® 845GV Integrated Graphics and Memory Control Hub (GMCH) with ICH4
RAM	Two 184-pin DIMM sockets, up to 2GB unbuffered non-ECC DDR-266/333 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 function expansion such as SCSI
USB	1 USB port via on-board bracket, 4 USB pin header onboard Compliant with USB Specification Rev. 2.0
	USB ports provide 0.5A @ 5V power for peripheral devices with individual 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, with optional DB-AC97S daughter board
Hardware Monitoring	Monitors 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 up to 64MB
	Built in 80-pin header for DVO LCD interface

Ethernet

Ethernet Controller	10/100/1000Mbps Ethernet by Intel 82540EM Ethernet
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
Compliance	CE, FCC Class A

Other Features

External Power Connector	One ATX-12 4-pin connector

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