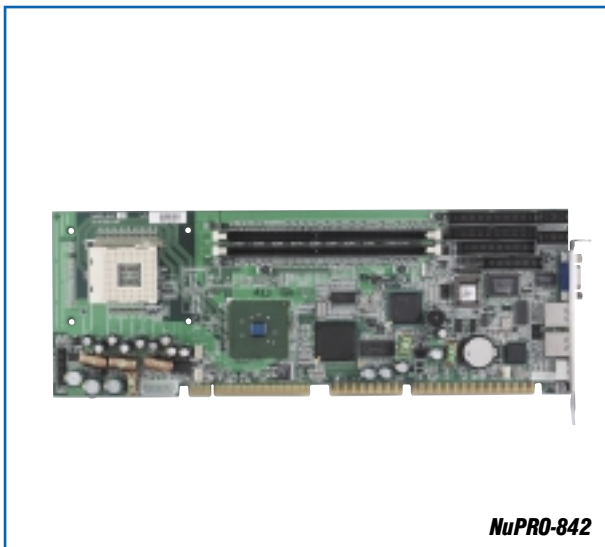# NuPRO-842 series

Full-Size Pentium 4 SBC with VGA/DVI/LVDS, Dual Gigabit Ethernet, USB 2.0

NuPRO-842

The NuPRO-842's Pentium 4 processor, Dual Gigabit Ethernet ports provide the highest performance computing solution available today. As a 32 bit, 33Mhz PCI Single Board Computer, the NuPRO-842 supports PICMG 1.0 Backplane for computing servers, telecommunication computers, and Industrial Controller.

Features

- Support Socket 478 Pentium 4 2.0GHz 2.4Ghz or higher.
- Two DDR DIMM sockets support up to 2GB DRR 266 SDRAM without ECC
- High communication bandwidth, support up to Dual Gigabit Ethernet ports (GbE)
- Support all generic features include VGA, COM ports, Keyboard, mouse and hardware monitoring
- Support USB 2.0

Specifications

Standards	PICMG 1.0
Form Factor	Standard Full-Size PICMG CPU Card
CPU/Cache	Intel Socket 478 FC-PGA Pentium 4(support from 2.4GHz to 3.06 GHz or Higher)
	Intel Socket 478 FC-PGA Mobile Pentium 4(support from 1.4GHz to 1.7GHz or Higher)
Front Side Bus Speed	400/533MHz
Chipset	Intel(r) 845GV Integrated Gfx Memory Control Hub(GMCH) with ICH4 MuTIOL(r) Media I/O
BIOS	Award 4Mb flash memory
RAM	Two 184-pin DIMM sockets, up to 2GB unbuffered non-ECC DDR-200/266 memory
VGA	Integrated 2D/3D Graphics Accelerator, Shared Memory size up to 32MB. Build in 38-pin header for DVO LCD interface
LAN	Dual 10/100/1000Mbps Ethernet ports by Intel 82540EM Ethernet Controller
Mini PCI	One MiniPCI Rev 1.0 compatible Type III slot for functions expansion such as SCSI
IDE	ATA-100, dual channels
Floppy	Standard 34-pin connector.
Flash Disk	Flash2000 2.5" flash drive

USB	1 USB ports via on-board bracket, 5 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)
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 NMI or system reset.
Audio	Integrated Audio Controllers with AC'97 Interface, Optional with DB-AC97S2 board
External Power Connector	One ATX-12 4-pin connector
Other Features	Intel PXE pre-boot on Ethernet Remote Console
Operating Temp.	0 to 55˚C
Storage Temp.	-20 to 80˚C
Shock	15G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88Grms, 5-500Hz, each axis Operation: 0.5Grms, 5-500Hz, each axis, with 2.5" HDD
Certificate or Test	CE; FCC class A; HALT

Ordering Information

Model number	Description/Configuration
NuPRO-842DV	PICMG Full-Size Pentium 4 SBC with AGP-VGA/ Dual GbE x2 (Include Cooler Kit)
NuPRO-842LV	PICMG Full-Size Pentium 4 SBC with AGP-VGA/ Single GbE x1 (Include Cooler Kit)

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