

NuPRO-840 series

Full-Size Pentium 4 SBC with VGA/Gigabit Ethernet



NuPRO-840

> ... The NuPRO-840 with Pentium 4 processor, one Gigabit Ethernet ports and one Fast Ethernet provide better performance computing solution available today. As a 32 bit, 33Mhz PCI Single Board Computer, the NuPRO-840 supports PICMG 1.0 Backplane for computing servers, telecommunication computers, and Industrial Controller.

Features

- Support Socket 478 Pentium 4 1.6 GHz ~ 2.4GHz or higher.
- Two DDR DIMM sockets support up to 2GB DDR 266 SDRAM with ECC.
- High communication bandwidth, support up to Dual Lan (one is Gigabit Ethernet ports)
- Support all generic features include VGA, COM ports, USB, Keyboard, mouse and hardware monitoring

Specifications

Standards	PICMG 1.0
Form Factor	Standard Full-Size PICMG CPU Card
CPU/Cache	Intel Socket 478 FC-PGA Pentium 4 (support from 1.6GHz to 2.4 GHz)
Front Side Bus Speed	400MHz
Chipset	Intel® 845D Memory Control Hub(MCH), ICH2 MuTIOL® Media I/O
BIOS	Award 4Mb flash memory
RAM	Two 184-pin DIMM sockets, up to 2GB unbuffered ECC DDR-200 memory
VGA	SIS 305 3D graphics engine with 16MB VRAM, AGP 2X, ACPI and VESA compliant
LAN	One 10/100/1000Mbps Ethernet ports by Intel 82540EM Ethernet Controller One 10/100 Fast Ethernet ports by Intel 82562 Ethernet Controller
IDE	ATA-100, dual channels
Floppy	Standard 34-pin connector.
Flash Disk	Flash2000 2.5" flash drive
USB	Supports up to two USB ports via on-board pin-header connector Compliant with USB Specification Rev. 1.1.

Super I/O	Winbond W83627HF, Two 16C550 UART compatible RS-232 COM ports with ESD protection up to 2KV.
Printer Port Supported	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-AC97S
External Power Connector	One Peripheral power 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-840DV	Socket 478 Pentium 4 SBC with AGP-VGA/GbE/Lan (Include Cooler Kit)
NuPRO-840LV	Socket 478 Pentium 4 SBC with AGP-VGA/Lan (Include Cooler Kit)

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