NuPRO-840 Series

Socket 478 Pentium-4 SBC with DDR/VGA/Dual Ethernet

Intel Pentium-4 CPU
Two DDR DIMM
Dual Ethernet
ESD Protection on every I/O
High drive ISA bus

CPU Type
- Intel Socket-478 mPGA Pentium-4 up to 2.0GHz
- Cache: 512KB L2 cache built-in CPU
- Front Side Bus Frequency: 400 MHz

Chipset
- Intel 845D (with ICH2)

BIOS: Award PnP BIOS
- BIOS write protection, provide anti-virus capability
- Customized power-on screen (for OEM project)
- DMI BIOS Support: Desktop Management Interface (DMI) allows users to download system hardware-level information such as CPU type, CPU speed, internal & external frequencies and memory size
- Supports system soft power-off (via ATX power supply)
- Support Intel Preboot Execution Environment (PXE)

Host Memory
- Two 184-pin DIMM sockets, Max. 2GB DDR SDRAM

On-board Ethernet
- Intel 845 chipset built-in 82559-compatible high performance IEEE 802.3 10/100-BaseTX Ethernet controller
- On-board Intel 82540 high performance IEEE 802.3 Gigabit Ethernet controller for secondary Ethernet port
- Supports IEEE 802.3u auto-negotiation for 10Base-T/100Base-TX
- Supports IEEE 802.3x 100Base-TX flow control
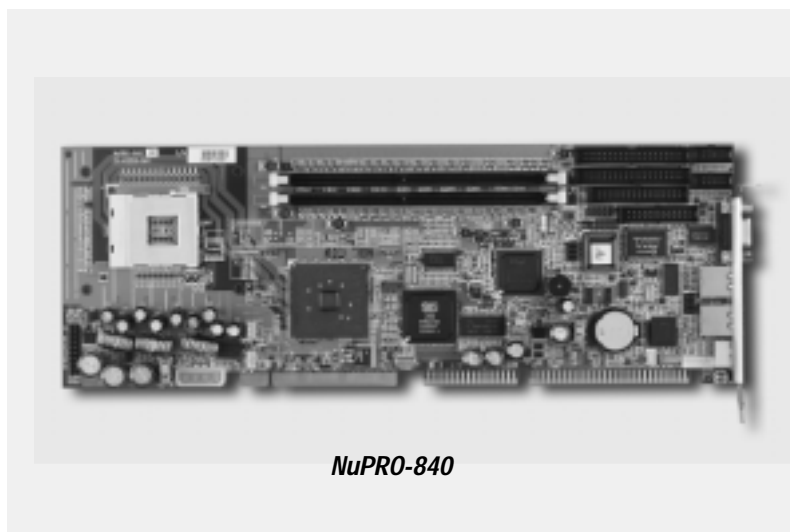- Reserved with pin-header for Ethernet's LED for user's applications

VGA Display
- SiS 305 3D graphics engine with 8MB Video Memory(16MB for OEM requirement)
- AGP 2X, ACPI and VESA compliant
- Support up to 1600x1200 resolution

IDE Ports
- Bus Master IDE controller, two EIDE interfaces support up to four IDE devices
- Support PIO Mode 3/4 and Ultra DMA/33/66/100 IDE devices

USB Interface
- Supports up to two USB ports via on-board pin-header connector
- Compliant with USB Specification Rev. 1.1.
- Individual over-current protection

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On Board Super I/O
- Winbond W83627HF (or other replacement)
- One high-speed bi-directional SPP/EPP/ECP parallel port with ESD protection to 4KV and downstream device protection to 30V
- One floppy interface, support two floppy drives
- Two 16C550 UARTs compatible RS-232 COM ports with ESD protection to 2KV

Audio
- Integrated in i845 chipset with Line-In, Line-Out & MIC connectors; meets AC'97 standard (Optional with DB-AC97S board for OEM requirement)

Watch-dog Timer
- Programmable I/O port 2Eh and 2Fh to configure watchdog timer, programmable timer 1~255 seconds or 1~255 minutes
- Bundled easy-programming library for DOS, Windows 95, 98, NT

Hardware Monitoring
- Winbond W83782D built in W83627HF, monitoring CPU temperature, CPU fan, system temperature and DC Voltages

Other Features
- ISA high-drive capability 64mA

Flash Disk Supporting
- Support flash module DOM (8MB~256MB) or 2.5" IDE flash disk (16MB~2GB)

PCB Dimension: 338 (L) x 122 (W) mm. Full-sized
Operating Temperature: 0 to 60

Ordering Information

NuPRO-840DV
 Socket 478 Pentium-4 SBC with DDR/Dual Ethernet/VGA

NuPRO-840LV
Socket 478 Pentium-4 SBC with DDR/Single Ethernet/VGA