NuPRO-780 Series

Full-Size Intel® Pentium® III Processor SBC with VGA, Fast Ethernet



Features

- *Uses longevity components supported by Intel Embedded roadmap*
- *Supports all socket 370 based Intel® Pentium® III processor (1.26GHz) and Intel® Celeron® processors*
- *MiniPCI extension capability*
- *High drive ISA bus*
- *ATX power connector for backplane-less applications*

Ordering Information

NuPRO-780DV	Socket 370 Pentium III SBC with mPCI/VGA/Dual Ethernet
NuPRO-780LV	Socket 370 Pentium III SBC with mPCI/VGA/Single Ethernet

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

Optional Accessories

Model Number	Description/Configuration
DB-AC97S	Audio daughter board with Line-in, Line-out, MIC-in connectors
Cooler-016	Cooler for NuPRO-760/780
Cooler-023	Cooler for NuPRO-760/780 for 1U/1GHz CPU

Specifications

CPU / Core Logic

CPU	Socket 370 based Intel® Pentium® III processor with FC-PGA2 packaging with 512KB on-die L2 cache @ full core speed & 133MHz FSB
	Socket 370 based Intel® Pentium® III processor with FC-PGA packaging with 256KB on-die L2 cache @ full core speed & 100/133MHz FSB
	Socket 370 based Intel® Celeron® processor with FC-PGA packaging with 128KB on-die L2 cache @ full core speed & 66/100MHz FSB
	Socket 370 based VIA C3 processor with FC-PGA packaging with 64/128KB L2 cache @ full speed and 100/133MHz FSB
FSB	133MHz
Chipset	Intel® 815E Integrated Graphics and Memory Control Hub (MCH), ICH2
RAM	Two 168-pin DIMM sockets, Max. 512MB un-buffered PC-133 SDRAM
BIOS	Award 4Mb flash memory

I/O Interfaces

IDE	ATA-100, dual channels
Audio	Integrated Audio Controllers with AC'97 interface, with optional DB-AC97S daughter board
USB	Supports 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
ISA	High drive ISA capability
MiniPCI Interface	One MiniPCI Rev 1.0 compatible Type III slot for function expansion such as SCSI
Floppy	Standard 34-pin connector
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	Intel 815E built-in hyper-pipelined architecture 3D graphics engine, 4MB Video Cache for optimized performance, AGP 4X, ACPI and VESA compliant

Ethernet

Ethernet	One 10/100 Fast Ethernet port by Intel 82562
	One 10/100 Fast Ethernet port by Intel 82559 Ethernet Controller (DV only)
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 type connector for backplane-less applications

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