NuPRO-850GV Series

PICMG® 1.2 Full-Size Intel® Pentium® 4 SBC with discrete ATi GPU, DDR, GbE, Serial ATA, LVDS, and Mini-PCI slot



Specifications

System

CPU	Socket 478 Intel® Pentium® 4 processor
	Supports Hyper-Threading Technology
FSB	800/533 MHz
Chipset	Intel® 875P + ESB6300
Memory	Dual-Channel DDR333/400 unbuffered memory with ECC, up to 4 GB
BIOS	Award 4 Mb flash memory
Watchdog Timer	1-255 sec or 1-255 min software programmable and can generate

I/O Interfaces

IDE	Two channel UltraATA 66/100
Serial ATA	Two Serial ATA ports with 1.5 Gbps data transfer rate
Mini PCI	One Type III Mini PCI slot for ATi Rage XL VGA card (NuPRO-850GV) or expansion (NuPRO-850GV8X)
USB	Four USB 2.0 ports (Two on faceplate, two on onboard pin header)
Multi I/O	One RS-232

Display

VGA	ATi Rage XL graphics card via Mini-PCI slot (NuPRO-850GV)
	Integrated ATi M10 GPU via AGP 8X bus (NuPRO-850GV8X)
LVDS	18/24 bit channel LVDS, up to 2048 x 1536 resolution (NuPRO-850GV8X)

Ethernet

Gigabit LAN	Onboard Intel® 82547GI GbE controller supports 10/100/1000 Base-T Gigabit Ethernet via Intel CSA bus

Mechanical and Environmental

Form Factor	Standard Full-Size PICMG® 1.2 CPU board
	PICMG® 1.2
Dimensions	338 mm x 122 mm (L x W)
Operating Temp.	0˚C to 60˚C
Storage Temp.	-20˚C to 80˚C
Compliance	CE, FCC Class A

Features

- *PICMG® 1.2 Full-Size SBC*
- *Socket 478 based Intel® Pentium® 4 processor up to 3.4 GHz*
- *Longevity Intel® 875P + ESB6300 chipset with FSB 800/533 MHz*
- *Four dual/single-channel DIMM, maximum 4 GB DDR RAM, ECC or none-ECC supported*
- *Discrete ATi GPU with high graphics performance*

Ordering Information

NuPRO-850GV8X	PICMG® 1.2 Full-Size Intel® Pentium® 4 SBC with integrated ATi M10 GPU, DDR, GbE, Serial ATA, LVDS and Mini-PCI slot
NuPRO-850GV	PICMG® 1.2 Full-Size Intel® Pentium® 4 SBC with ATi Rage XL Mini-PCI VGA card, DDR, GbE and Serial ATA, RoHS compliant

Note: CPU, Memory module and Cooler kit are not included.

Optional Accessories

Model Number	Description/Configuration
DB-AC97S	AC'97 audio kit with mic-in, line-in and line-out ports

Recommended System

Model Name	Chassis	Backplane	Power Supply
NS-400BX-13S4-460	BX-400 (BlueExpress)	HPX-13S4	APS-946XA-EPS12
NS-200BX-D5S4C-460	BX-200 (BlueExpress)	HPX-D5S4C	APS-946XA-EPS12

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