NuPRO-820 Series

Half-Size Low Power Consumption Pentium® M ePCI-X SBC with DVI/LVDS/Six SATA



Features

- *Low power consumption Pentium® M / Celeron® M Processor*
- *Longevity Intel® 855GME chipset with 6300ESB*
- *Maximum 2GB DDR 266/333*
- *6-CH SATA-150, 4-CH support RAID 0/1, single ATA-100*
- *VGA, DVI, LVDS, GbE, four USB 2.0, COM, and WDT*
- *66MHz/64-bit ePCI-X expansion bus*
- *Easy customization for OEM programs*

Ordering Information

NuPRO-820-P1600/512	PICMG 1.2 Half-size Pentium M SHB, 855GME/6300ESB w/VGA/GbE/S-ATA/Pentium M 1.6GHz/512MB DDR333
NuPRO-820-C1300/512	PICMG 1.2 Half-size Pentium M SHB, 855GME/6300ESB w/VGA/GbE/S-ATA/Celeron M 1.3GHz/512MB DDR333
NuPRO-820-P1100/512	PICMG 1.2 Full-size Pentium M SHB, 855GME/6300ESB w/VGA/GbE/S-ATA/Pentium M 1.1GHz/512MB DDR333

Note: Call for availability of more CPU and memory options

Specifications

CPU / Core Logic

CPU	Pentium M processors, 1.1GHz-2.0GHz
	Celeron M processors, 600MHz-1.3GHz
FSB	400MHz
Chipset	Intel 855GME chipset, with 6300ESB, FWH
RAM	Two DDR SO-DIMM sockets, supports DDR266/333 up to 2GB
BIOS	Award 4Mb flash memory

Bus

Bus-A	ePCI-X Bus-A complaint with PCI-X 66MHz

I/O Interfaces

IDE	ATA-100, single channel
CompactFlash	On board CompactFlash support
Serial ATA	Support 6 channels SATA-150
	Two by 6300ESB
	Four by SiliconImage 3114, support RAID 0/1
USB	2 USB ports on the faceplate, 2 by pin header
	Compliant with USB Specification Rev. 2.0, individual over-current protection
Super I/O	One RS-232 COM port with ESD protection to 2KV
Audio	Integrated Audio Controllers with AC'97 interface, with optional DB-AC97S daughter board
Watchdog Timer	Built-in 6300ESB, support 2-stage WDT

VGA

Display	Built-in with 855GME. 350MHz integrated 24-bit RAMDAC that can a standard progressive scan analog monitor with pixel resolution up to 1600 x 1200 at 85MHz and 2048 x 1536 at 75MHz.
	One DVI interface supports up to 165 Mpixels/sec, resolutions up to 1600 x 1200 UXGA display
	One channel LFP transmitter interface to support LVDS LCD panel resolutions up to UXGA

Ethernet

Ethernet	Intel 82541GI Ethernet controller
	Supports 1000Base-TX, 100Base-TX and 10Base-T (IEEE802.3, 802.3u, and 802.3ab)
Features	Intel PXE pre-boot on Ethernet

Mechanical and Environmental

Form Factor	Standard Half-Size PICMG 1.2 CPU Card
	PICMG 1.2
Dimension	191mm x 122mm (L x W)
Operating Temp.	0 to 60˚C
Storage Temp.	-20 to 80˚C
Compliance	CE, FCC Class A

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