

# NASA-P4BVLL

## NASA-P4BVLL

- P4 FSB-400 & 533 SBC
- Intel 845D Chipset
- DDR 266 high speed RAM
- ATI Rage 128 AGP 4X speed, 16MB SGRAM, CRT, DVI LCD
- Dual LAN ports
- 2xUSB ports
- 2x COM ports
- ISA High Drive Capability



**P4 SBC with FSB 533 DDR VGA / 16M VRAM**

**Dual LAN / ISA High Drive SBC**

## General specifications

<b>CPU</b> Socket 478-pins FC-PGA2 supports Pentium 4 Willamette (0.18u process) and Northwood (0.13u process) CPU up to 2.2GHz or above with 400MT/s and 533MT/s FSB	<b>ISA High Drive Capability CTI ready</b> <b>ISA Add-on</b> 64 mA high drive buffer supports up to 20 ISA based add on cards	<b>LCD</b> Support AGP 4X, 1x TMDS connector support LCD, TFT LCD
<b>System Chipset</b> Intel 845D Brookdale chipset with I/O subsystems	<b>High Speed Multi I/O Chipset</b> Winbond W83627	<b>Display Type</b> CRT (VGA, SVGA, XGA, SXGA) & TFT LCD
<b>BIOS</b> Award BIOS, PnP support, Anti-Boot Virus function, Boot Room & 512KB FLASH EPROM for BIOS update	<b>Serial ports</b> 2xCOMs ( 1x RS232 and 1x RS232/422/485)	<b>System Monitoring and Alarm Chipset</b> Intel 845 D For CPU & System Temperature, System Voltage and Cooling Fan RPM
<b>Green Function</b> power saving supported in BIOS. DOZE / STANDBY / SUSPEND modes, ACPI & APM	<b>USB</b> Two onboard USB v1.1 ports support hot- plug function, one IrDA interface	<b>Environmental and Power</b> <b>Power Requirements</b> 6A@+5V; 8A@+12V; 100mA@-12V
<b>Secondary Cache</b> Integrated on CPU and runs on CPU core frequency	<b>Floppy Disk Drive</b> 2 floppy disk drives or LS-120 Drive	<b>Board Dimensions</b> 338 mm x122 mm. (13.3"x4.88"), PICMG 2.0 Compliant
<b>DDR Memory</b> Two 184-pin high speed DDR DIMM sockets support DDR266 or DDR200 RAMs up to 2GB of PC2100 system memory	<b>Bi-directional Parallel Port</b> 1xSPP, EPP and ECP mode.	<b>Board Weight</b> 0.6 Kg.
<b>Data Bus &amp; Bus Speeds</b> 32-bit PCI	<b>Keyboard and Mouse Connectors</b> external PS/2 KB/Mouse port	<b>Operating Temperature</b> 0 to 55°C (32 to 131°F)
<b>PCI Enhanced IDE with Ultra DMA</b> supports 2 ports and up to 4 ATAPI devices, Ultra DMA transfer rates 33 MB/sec	<b>Network Interface Controller Chipset</b> 2x Intel 82559, support 10/100 Mbp speed auto-negotiation, duplex, flow-control, VLAN.	
<b>Watchdog Timer</b> 4 level programmable watchdog timer, from 10-80 seconds.	<b>Connectors</b> <b>Dual LAN Design</b> Two 10/100M RJ-45 Ethernet ports. Support load-balancing, Load Sharing, Network redundancy.	
<b>DiskOnModule</b> Support DOM up to 512MB	<b>LAN Management</b> support Intel LAN Desk Service Agent 6.0	
	<b>Display Controller Chipset</b> ATI Rage128 4XL AGP, 16MB SGRAM on board supports 2D and 3D AGP 4X	
		<b>Ordering Information</b> <b>NASA-P4BVLL</b> Full-size SBC with VGA, 16MB VRAM, Dual Fast Ethernet