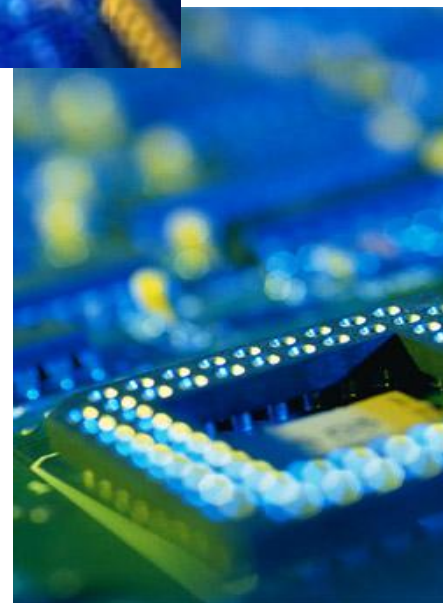# PMB-421

Intel® Pentium® 4 + 875P Motherboard with Sound/ 3 Giga LAN

PMB-421 features an Intel® Pentium® 4 processor supporting Hyper-Treading technology, memory up to 4GB DDR DRAM, and Intel® 875P+6300ESB chipset, and 8X AGP graphics engine. PMB-421 also supports four USB2.0, and ten Serial ATA interfaces (two STAT ports provided by 6300ESB and another 8 SATA ports added with RAID capability) that accelerate the speed of data transaction. An enhanced AC '97 audio implementation with dual independent DMA audio engines delivers improved sound quality. PMB-421 provides high speed networking availability as well. Onboard Intel® 82547GI supports 266MB CSA interface and Intel® 82546EB supports PCI-X interface at running speed of 64 bits/66MHz and dual giga LAN ports Thus, PMB-421 provides up to three 1 G Base Tx Ethernet ports.

Integrated two 64bits PCI-X interfaces supporting server and high-end workstation applications, PMB-421 also provides 1 AGP, 1 EPCI and 4 PCI interfaces. Other features of PMB-421 include two IDE interfaces, 1 FDD, 10 serial ports, 1 parallel port, 1 IrDA port, keyboard/ mouse connector.
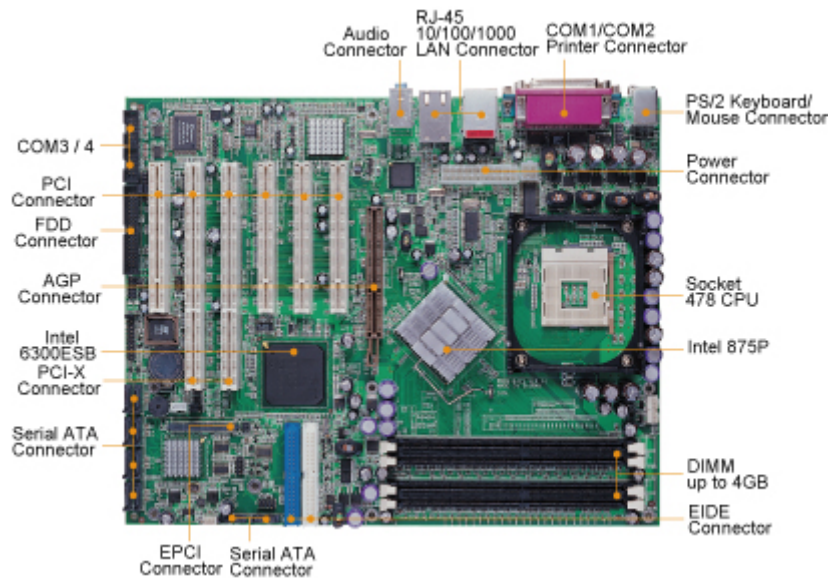
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PMB-421

Intel P4 + 875P Motherboard with Sound/2 GIGA LAN

Audio Connector
RJ-45 10/100/1000 LAN Connector
COM1/COM2 Printer Connector
PS/2 Keyboard/ Mouse Connector
Power Connector
COM3 / 4
PCI Connector
FDD Connector
AGP Connector
Intel 6300ESB PCI-X Connector
Serial ATA Connector
Socket 478 CPU
Intel 875P
DIMM up to 4GB
EIDE Connector
EPCI Connector
Serial ATA Connector

Display Specifications

PMB-421

Graphic	Built-in Intel® 855GME, share system memory Support CRT, LVDS
LCD Interface	18/36-bit LVDS

System Specifications

CPU	Intel® Pentium® 4 Processor
CPU Frequency	2.0~3.4GHz
Chipset	Intel® 875P + 6300ESB
DRAM	4 x 184-Pin DDR DIMM, support DDR400 SDRAM up to 4 GB
BIOS	Phoenix-Award PnP BIOS, with VGA BIOS
Watchdog	1~255 secs Watchdog timer selectable w/Reset/NMI
Power Supply	Support AT/ATX power
Power Requirement	+5V: 2.27A / +12V: 8.16/ +3.3V:5.78A (Pentium® 4 3.2GHz)
Power Consumption	+5V: 2.66V/ +12V: 6.61/ +3.3V:5.67A (Celeron® 4 2.8GHz)
Dimension	305mm x 244mm (12" x 9.61")

Mechanical Specifications

IDE Interface	1 x 40-pin IDE (UDMA 33/66/100/133) 1 x 40-pin IDE (UDMA 33/66/100)
Audio	AC '97 Codec, Realtek ALC202A with Line-in/ Line-out/MIC
FDD Interface	1
Operating Temperature	0-60°C (32° ~ 140°F)
Storage Temperature	-40°C - 85°C (~40° ~ 185 °F)
Humidity	Operation humidity 20~90%, Storage humidity 20~95%
Bus Interface	4xPCI slots, 2xPCI-X slots, 1xEPCI slot, 1xAGPslot
Serial Port	4 x COM ports, COM 1/3/4 for RS232, COM2 for RS232/422/485 (for 16550 compatible type of UART)
Parallel Port	1 x parallel (SPP/EPP/ECP)
IrDA	I (SIR)
Keyboard	Mini DIN connector
Mouse	Mini DIN connector
LAN	LAN 1: Intel® 82547GI (10/100/1000Mbps) LAN 2: Intel® 82546EB (10/100/1000Mbps) Support Wake-On-LAN with ATX power
USB	4 x USB 2.0

Note: All specifications are subject to change without notice.