

Premiere/PCI Baby-AT Board and Expandable Desktop Memory Map, I/O Map, Interrupts, DMA

PLEASE NOTE

This motherboard product is no longer being manufactured by Intel.

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Memory Map

| <i>Address Range (Deci-</i> | <i>Address Range (hex)</i> | <i>Size</i> | <i>Description</i> |
|-----------------------------|----------------------------|-------------|---|
| 1024K-131072K | 100000-8000000 | 130048K | Extended Memory |
| 960K-1023K | F0000-FFFFF | 64K | AMI System BIOS |
| 952K-959K | EE000-EFFFF | 8K | FLASH Boot Block (Available as HIMEM) |
| 948K-951K | ED000-EDFFF | 4K | Logo reserved |
| 928K-947K | E8000-ECFFF | 20K | BIOS RESERVED |
| 640K-927K | A0000-E7FFF | 288K | Available HI DOS Memory (open to the ISA & PCI bus) |
| 639K | 9FC00-9FFFF | 1K | Extended BIOS Data (moveable by QEMM, 386MAX) |
| 512K-638K | 80000-9FBFF | 127K | Extended conventional |
| 0K-511K | 00000-7FFFF | 512K | Conventional |

Table D-1. Premiere/PCI Baby-AT motherboard Memory Map

I/O Map

| <i>Address (hex)</i> | <i>Size(Dec)</i> | <i>Description</i> |
|----------------------|------------------|---------------------------------|
| 0000 - 000F | 16 bytes | SIO - DMA 1 |
| 0020 - 0021 | 2 bytes | SIO - Interrupt Controller 1 |
| 0040 - 0043 | 4 bytes | SIO - Timer 1 |
| 0048 - 004B | 4 bytes | SIO - Timer 2 |
| 0060 | 1 byte | Keyboard Controller Data Byte |
| 0061 | 1 byte | SIO - NMI, speaker control |
| 0064 | 1 byte | Kbd Controller, CMD/STAT Byte |
| 0070, bit 7 | 1 bit | SIO - Enable NMI |
| 0070, bits 6:0 | 7 bits | SIO - Real Time Clock, Address |
| 0071 | 1 byte | SIO - Real Time Clock, Data |
| 0073 | 1 byte | Reserved - Brd. Config. |
| 0075 | 1 byte | Reserved - Brd. Config.,RD only |
| 0078 | 1 byte | SIO - BIOS Timer |
| 0080 - 008F | 16 bytes | SIO - DMA Page Register |
| 00A0 - 00A1 | 2 bytes | SIO - Interrupt Controller 2 |
| 00C0 - 00DE | 31 bytes | SIO - DMA 2 |
| 00F0 | 1 bytes | Reset Numeric Error |
| 0170 - 0177 | 8 bytes | Secondary IDE Channel |
| 01F0 - 01F7 | 8 bytes | Primary IDE Channel |
| 0278 - 027F | 8 bytes | Parallel Port 2 |

| <i>Address (hex)</i> | <i>Size(Dec)</i> | <i>Description</i> |
|----------------------|------------------|---------------------------------|
| 02E8 - 02EF | 8 bytes | Serial Port 4 |
| 02F8 - 02FF | 8 bytes | On-Board Serial Port 2 |
| 0376 | 1 byte | Secondary IDE Chan Cmd Port |
| 0377 | 1 byte | Secondary IDE Chan Stat Port |
| 0378 - 037F | 8 bytes | Parallel Port 1 |
| 03BC - 03BF | 4 bytes | Parallel Port x |
| 03E8 - 03EF | 8 bytes | Serial Port 3 |
| 03F0 - 03F5 | 6 bytes | Floppy Channel 1 |
| 03F6 | 1 bytes | Primary IDE Channel Cmd Port |
| 03F7 (Write) | 1 byte | Floppy Channel 1 Command |
| 03F7, bit 7 | 1 bit | Floppy Disk Change Channel 1 |
| 03F7, bits 6:0 | 7 bits | Primary IDE Channel Status Port |
| 03F8 - 03FF | 8 bytes | On-Board Serial Port 1 |
| 0678 - 067A | 3 bytes | Parallel Port 2 ECP Registers** |
| 0778 - 077A | 3 bytes | Parallel Port 1 ECP Registers** |
| 0CF8 | 1 byte | PCI Configuration Space Enable |
| 0CF9 | 1 byte | Deturbo Mode Enable |
| C000 - C0FF | 256 byte | 82434LX Config. Registers * |
| C200 - C2FF | 256 byte | 82378IB Config. Registers * |

Table E-1. Premiere/PCI Baby-AT I/O Address Map

* Only accessible after PCI configuration space is enabled.

** Only used when ECP mode is enabled

Interrupts & DMA Channels

| <i>IRQ</i> | <i>System Resource</i> |
|------------|--|
| NMI | Parity Error |
| 0 | Reserved, Interval Timer |
| 1 | Reserved, Keyboard buffer full |
| 2 | Reserved, Cascade interrupt from slave PIC |
| 3 | Serial Port 2 |
| 4 | Serial Port 1 |
| 5 | Parallel Port 2 |
| 6 | Floppy |
| 7 | Parallel Port 1 |
| 8 | Real Time Clock |
| 9 | User available |
| 10 | User available |
| 11 | User available |
| 12 | PS/2 Mouse Port, User available on AT style bds |
| 13 | Reserved, Math coprocessor |
| 14 | Primary IDE if enabled, else available to user |
| 15 | Secondary IDE if enabled, else available to user |

Table F-1. Premiere/PCI Baby-AT Interrupts

| <i>DMA</i> | <i>Data Width</i> | <i>System Resource</i> |
|------------|-------------------|------------------------------|
| 0 | 8- or 16-bits | Open |
| 1 | 8- or 16-bits | Open - Normally used for LAN |
| 2 | 8- or 16-bits | Floppy |
| 3 | 8- or 16-bits | Parallel Port |
| 4 | | Reserved - Cascade channel |
| 5 | 16-bits | Open |
| 6 | 16-bits | Open |
| 7 | 16-bits | IDE |

Table F-2. Premiere/PCI Baby-AT DMA Map