

# Premiere/PCI LC

## Memory Map, I/O Map, Interrupts, DMA, Video Modes

### PLEASE NOTE

This motherboard product is no longer being manufactured by Intel.

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## Memory Map

Address Range (Dec)	Address Range (hex)	Size	Description
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	Plug-n-Play ESCD data
800K-927K	C8000-E7FFF	128K	Available HI DOS Memory (open to the ISA & PCI bus)
768K-799K	C0000-C7FFF	32K	On-board Video BIOS
640K-767K	A0000-BFFFF	128K	On-board Video RAM
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 F-1. Premiere/PCI LC Memory Map

## I/O Map

Address (hex)	Size(Dec)	Description
0000 - 000F	16 bytes	SIO - DMA 1
0020 - 0021	2 bytes	SIO - Interrupt Controller
0040 - 0043	4 bytes	SIO - Timer 1
0048 - 004B	4 bytes	SIO - Timer 2
0060	1 byte	Keyboard Controller Data
0061	1 byte	SIO - NMI, speaker
0064	1 byte	Kbd Controller,
0070, bit 7	1 bit	SIO - Enable NMI
0070, bits 6:0	7 bits	SIO - Real Time Clock,
0071	1 byte	SIO - Real Time Clock,
0073	1 byte	Reserved - Brd. Config.
0075	1 byte	Reserved - Brd.
0078	1 byte	SIO - BIOS Timer
0080 - 008F	16 bytes	SIO - DMA Page Register
00A0 - 00A1	2 bytes	SIO - Interrupt Controller
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 - 027B	4 bytes	Parallel Port 2

02F8 - 02FF	8 bytes	On-Board Serial Port 2
0376	1 byte	Secondary IDE Chan
0377	1 byte	Secondary IDE Chan Stat
0378 - 037F	8 bytes	Parallel Port 1
03BC - 03BF	4 bytes	Parallel Port x
03C0 - 03CF	16 bytes	VGA Comp. Registers
03E8 - 03EF	8 bytes	Serial Port 3
03F0 - 03F5	6 bytes	Floppy Channel 1
03F6	1 bytes	Primary IDE Channel
03F7 (Write)	1 byte	Floppy Channel 1
03F7, bit 7	1 bit	Floppy Disk Change
03F7, bits 6:0	7 bits	Primary IDE Channel
03F8 - 03FF	8 bytes	On-Board Serial Port 1
0CF8	1 byte	PCI Configuration Space
0CF9	1 byte	Deturbo Mode Enable
C000 - C0FF	256 byte	82434LX Config.
C200 - C2FF	256 byte	82378IB Config. Registers
C300 - C3FF	256 byte	Cirrus Video Config.

Table G-1. Premiere/PCI LC I/O Address Map

# Interrupts & DMA Channels

IRQ	System Resource
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	On-board Mouse Port
13	Reserved, Math coprocessor
14	Primary IDE if enabled, else available to user
15	Secondary IDE if enabled, else available to user

Table H-1. Premiere/PCI LC/ LPX Interrupts

DMA	Data Width	System Resource
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 H-2. Premiere/PCI LC/ LPX DMA Map

## Video Modes

### VIDEO RESOLUTIONS AND FREQUENCIES

\* in bits per pixel: 4 bpp= 16 colors, 8 bpp= 256 colors, 16 bpp = 65K colors, 24 bpp = 16.7M colors.

(i) = interlaced

Resolution	Color Depth*	Vert. (Hz)	Horiz. (KHz)	Memory Required
640x480	8	60	31.5	1 MB
640x480	8	72	37.0	1 MB
640x480	8	72	44.6	1 MB
640x480	16	60	31.5	1 MB
640x480	16	72	37.0	1 MB
640x480	16	72	44.6	1 MB
640x480	24	60	31.5	1 MB
640x480	24	72	37.0	1 MB
640x480	24	72	44.6	1 MB
800x600	8	95(i)	33.8	1 MB
800x600	8	56	35.2	1 MB
800x600	8	60	37.9	1 MB
800x600	8	70	44.5	1 MB
800x600	8	72	48.0	1 MB
800x600	8	76	52.4	1 MB
800x600	16	95i	33.8	1 MB
800x600	16	56	35.2	1 MB
800x600	16	70	44.5	1 MB
800x600	16	72	48.0	1 MB
800x600	16	76	52.4	2 MB
800x600	24	95(i)	33.8	2 MB
800x600	24	56	35.2	2 MB

Resolution	Color Depth*	Vert. (Hz)	Horiz. (KHz)	Memory Required
800x600	24	60	37.9	2 MB
800x600	24	70	44.5	2 MB
800x600	24	72	48.0	2 MB
1024x768	8	87(i)	35.5	1 MB
1024x768	8	60	48.4	1 MB
1024x768	8	66	53.9	1 MB
1024x768	8	70	56.1	1 MB
1024x768	8	72	57.9	1 MB
1024x768	8	76	61.4	1 MB
1024x768	16	87(i)	35.5	2 MB
1024x768	16	60	48.4	2 MB
1024x768	16	66	53.9	2 MB
1024x768	16	70	56.1	2 MB
1024x768	16	72	57.9	2 MB
1024x768	16	76	61.4	2 MB
1280x1024	4	87(i)	50	1 MB
1280x1024	4	95(i)	50	1 MB
1280x1024	8	87(i)	50	2 MB
1280x1024	8	95(i)	50	2 MB
1280x1024	8	60	64.0	2 MB
1280x1024	8	70	74.6	2 MB
1280x1024	8	74	81.1	2 MB