Premiere/PCI LX
User-Installable Upgrades

PLEASE NOTE

This motherboard product is no longer being manufactured by Intel.

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SYSTEM MEMORY

Table A-1 shows the possible memory combinations. The Premiere/PCI LX supports both parity (x 36) and non-parity SIMMs (x 36), but they cannot be mixed within the same memory bank. Also, there is no parity checking provided for any system memory. SIMM requirements are 70ns, Fast Page Mode, with tin-lead connectors.

SIMM 1,2 (Bank 0) SIMM Type (Amount)	SIMM 3,4 (Bank 1) SIMM Type (Amount)	Total System Memory (excluding 8MB on baseboard)	Total System Memory (including 8MB on baseboard)
256K (1 MB)	Empty	2 MB	10MB
256K (1 MB)	256K (1 MB)	4 MB	12MB
256K (1 MB)	512K (2 MB)	6 MB	14MB
256K (1 MB)	1M (4 MB)	10 MB	18MB
256K (1 MB)	2M (8 MB)	18 MB	26MB
256K (1 MB)	4M (16 MB)	34 MB	42MB
256K (1 MB)	8M (32 MB)	66 MB	74MB
512K (2 MB)	Empty	4 MB	12MB
512K (2 MB)	256K (1 MB)	6 MB	14MB
512K (2 MB)	512K (2 MB)	8 MB	16MB
512K (2 MB)	1M (4 MB)	12 MB	20MB
512K (2 MB)	2M (8 MB)	20 MB	28MB
512K (2 MB)	4M (16 MB)	36 MB	44MB
512K (2 MB)	8M (32 MB)	68 MB	76MB
1M (4 MB)	Empty	8 MB	16MB
1M (4 MB)	256K (1 MB)	10 MB	18MB
1M (4 MB)	512K (2 MB)	12 MB	20MB
1M (4 MB)	1M (4 MB)	16 MB	24MB
1M (4 MB)	2M (8 MB)	24 MB	32MB
1M (4 MB)	4M (16 MB)	40 MB	48MB
1M (4 MB)	8M (32 MB)	72 MB	80MB
2M (8 MB)	Empty	16 MB	24MB
2M (8 MB)	256K (1 MB)	18 MB	26MB
2M (8 MB)	512K (2 MB)	20 MB	28MB
2M (8 MB)	1M (4 MB)	24 MB	32MB
2M (8 MB)	2M (8 MB)	32 MB	40MB
2M (8 MB)	4M (16 MB)	48 MB	56MB
2M (8 MB)	8M (32 MB)	80 MB	88MB
4M (16 MB)	Empty	32 MB	40MB
4M (16 MB)	256K (1 MB)	34 MB	42MB
4M (16 MB)	512K (2 MB)	36 MB	44MB
4M (16 MB)	1M (4 MB)	40 MB	48MB
4M (16 MB)	2M (8 MB)	48 MB	56MB
4M (16 MB)	4M (16 MB)	64 MB	72MB
4M (16 MB)	8M (32 MB)	96 MB	104MB
8M (32 MB)	Empty	64 MB	72MB
8M (32 MB)	256K (1 MB)	66 MB	74MB
8M (32 MB)	512K (2 MB)	68 MB	76MB
8M (32 MB)	1M (4 MB)	72 MB	80MB
8M (32 MB)	2M (8 MB)	80 MB	88MB
8M (32 MB)	4M (16 MB)	96 MB	104MB
8M (32 MB)	8M (32 MB)	128 MB	136MB

Table A-1. Possible SIMM memory combinations

APPROVED SIMM LIST

The following tables list SIMMs that are known to be compatible with the Classic E. SIMMs that are not listed also should function properly as long as their specifications are compatible with the devices listed below. In general, SIMM devices that are faster than those specified for a given platform will work although no extra performance will be realized. The SIMM devices shown are categorized according to three levels of qualification:

1. Intel Approved and Tested: The device has been electrically tested by Intel and is known to be compatible with the Classic E. In addition, the vendor has met or exceeded Intel's product change, quality control, and availability requirements and is listed on our Approved Manufacturing List.

2. Intel Tested: The device has been electrically tested by Intel across voltage and temperature margins ("four corners") and is known to be compatible with the specified platform(s).

3. Customer Tested: The device has been electrically tested by a customer and is reported to be compatible with the specified platform(s).

Intel recommends that SIMMs listed as (1) *Intel Approved and Tested* or (2) *Intel Tested* be used to ensure reliable system operation. SIMMs not listed or listed as (3) *Customer Tested* can be used; but, in the event of unreliable system operation, the SIMMs should be replaced with SIMMs tested by Intel (1 or 2) to determine whether the SIMMs are causing the problem.

Telphone numbers provided for your convenience. Accurate as of March 1994, but may change without notice.

IMPORTANT NOTE

SIMM devices with gold contacts should NOT be placed into SIMM sockets with tin-lead contacts or vice-versa. Mixing dissimilar metal contact types has been shown to result in unreliable memory operation.

1M X 32BIT (4MB NON-PARITY SIMMS)

Manufacturer	Part Number	Level of Qual	Phone Number
Simple Tech.	STI1000-70	2	(714) 558-1120
Unigen Corp.	UG1M32000SQT-7	2	Contact Patrick Kiley (800) 826-0808 in CA (510) 657-2680
MGV Corporation	G0401327ST85TIF	2	(205) 772-1100

1MK X 36BIT (4MB PARITY SIMMS)

Unigen Corp.	UG1M36000DQT-7	2	Contact Patrick Kiley (800) 826-0808 in CA (510) 657-2680
Simple Tech.	ST1361000-70T	2	(714) 558-1120
Simple Tech.	STM361020-70	2	(714) 558-1120
MGV Manufact.	GO401367-T1	2	(205) 772-1100

2MEG X 32BIT (8MB NON-PARITY SIMMS)

Unigen Corp.	UG2M32000DQT-7	2	Contact Patrick Kiley (800) 826-0808 in CA (510) 657-2680
Simple Tech.	ST1322000-70	2	(714) 558-1120

2MEG X 36BIT (8MB PARITY SIMMS)

None at this time			

4MEG X 32BIT (16MB NON-PARITY SIMMS)

Unigen Corp.	UG4M32000SQT-7	2	Contact Patrick Kiley (800) 826-0808 in CA (510) 657-2680
MGV Manufactur.	G1604327ST85TIN	2	(205) 772-1100

4MEG X 36BIT (16MB PARITY SIMMS)

Unigen Corp.	UG4M36000DQT-7	2	Contact Patrick Kiley (800) 826-0808 in CA (510) 657-2680

8MEG X 32BIT (32MB NON-PARITY SIMMS)

Simple Tech.	ST1328000-70T	2	(714) 558-1120

8MEG X 36BIT (32MB PARITY SIMMS)

None at this time			

GRAPHICS DRAM

The Premiere/PCI LX baseboard can be upgraded to 2 MB of graphics DRAM by adding two 256KB x 16 fast page mode 70 ns DRAMs to the two 40-pin SOJ sockets at locations U10A1 and U11A1. Table A-2 lists several suppliers and their part numbers.

Supplier	Part Number
Fujitsu	MB814260-70PJ-ER
Hitachi	HM514260AJ-7T
Micron Tech	MT4C16257DJ-7TR
Mitsubishi	M5M44260AJ-7-T10
NEC	UPD42S4260LE-70ITR
NEC	UPD424260LE-70ITR
Samsung	KM416C256AJ-7T
Samsung	KM416C256BJ-7T
Toshiba	TC514260BJ-70(EL)

Table A-2. Sampling of Graphics DRAM Component Vendors