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LaserWriter Printers: Memory Configurations (6/96)

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TOPIC -----

Here is a chart that shows memory configurations and SIMM speeds for Apple LaserWriter printers.

DISCUSSION -----

Apple LaserWriter Printers: RAM Configurations

Begin_Table

Printer	RAM Soldered on Board (MB)	Number of SIMM Slots	Possible SIMM Sizes	Physical RAM Configs (MB)	Speed
LW	1.5	0	N/A	1.5*	N/A
LW Plus	1.5	0	N/A	1.5*	N/A
LW IISC%	0	4	256K	1	120 ns
LW IINT%	2	0	N/A	2*	N/A
LW IINTX%	0	12	256K,1MB	2,3,4,5,8, 9,12	120 ns
LW IIIf	0	8	256K, 1MB, 4MB	2,4,5,8,16, 17,20,32	80 ns
LW IIG	0	8	256K, 1MB, 4MB	5,8,16,17, 20,32	80 ns
LW Pro 600 and 630	0	2	4MB, 8MB, 16MB	8,16,20,32	80 ns

LW Pro 810	8	3	4MB, 8MB	8,12,16,20, 24,28,32	N/A
LW Select 300	0.5	1	1MB, 4MB	0.5,1.5,4.5	80 ns
LW Select 310	1.5	1	1MB, 4MB	1.5,2.5,5.5	100 ns
LW Select 360	3	1	4MB, 16MB	7,16	80 ns
PLW SC	0	4	256K	1	120 ns
PLW LS	0	4	256K	0.5,1	100 ns
PLW NT	0	2	1MB, 4MB	2,8	120 ns
PLW NTR	2	1	1MB, 2MB	3,4	80 ns
PLW 300	0.5	0	N/A	0.5	N/A
LW 16/600 PS	0	2	4MB, 8MB, 16MB	8,12,16,24, 32	80 ns
Color LW 12/600 PS	8	2	1MB, 4MB, 16MB	12,13,16,24, 25,28,40	60 ns
LW 12/640 PS	0	2	4 MB,8 MB 16 MB,32 MB	4,8,12,16,20 24,32,36,40 48,64	70 ns

End_Table

NOTES:

Unless otherwise noted, Apple LaserWriters use 30-pin, 80 ns memory SIMMs.

* These LaserWriter printers have the RAM soldered on the board. There are no RAM upgrades available.

% These LaserWriter printers can be upgraded to a LaserWriter IIx or IIg. Contact your local authorized Apple dealer for upgrade information.

The LaserWriter IINTX uses 64-pin, 120 ns (or faster) memory SIMMs.

The LaserWriter Pro 600 and 630 use 72-pin, 80ns (or faster) memory SIMMs. If you use a double-sided SIMM, you can only fill one SIMM slot since a double-sided SIMM electronically occupies both SIMM slots.

The LaserWriter Pro 810 uses special non-standard 4MB and 8MB memory modules.

The LaserWriter Select 310 uses 72-pin, 100 ns (or faster) memory SIMMs.

The LaserWriter Select 360 can be upgraded with a 72-pin, 80 ns 16MB (4 Mbit by

32 bit) SIMM with 2K Row refresh (11 bit by 11 bit).

The LaserWriter Select 360 may be upgraded to 16 MB total by removing the 4 MB SIMM and replacing it with a 16 MB SIMM. The remaining 3 MB of memory is disabled by the controller whenever a 16 MB SIMM is installed.

The Personal LaserWriter SC can be upgraded to a Personal LaserWriter NT. Contact your local authorized Apple dealer for upgrade information.

The Personal LaserWriter NT printer's two SIMM slots are treated as one bank; therefore, you cannot combine 1MB and 4MB SIMMs to get a 5MB configuration.

The Personal LaserWriter NTR uses 72-pin, CAS before RAS, 80 ns (or faster) memory SIMMs.

The LaserWriter 16/600 PS uses 72-pin SIMMs. 16 MB SIMMs with a 4K Row (10 bit x 12 bit) refresh configuration are not compatible with the LaserWriter 16/600 PS. Memory configurations of 16+0=16MB and 16+4=20MB are not supported by the LaserWriter 16/600 PS printer.

The Color LaserWriter 12/600 PS uses 72-pin SIMMs. You can mix SIMMs of different capacities in the two SIMM slots. When installing memory simms of different sizes, the larger density SIMM can be installed into either memory slot. There should be no difference in installing larger density SIMMs in J10 or J11.

It is important to remember, however, that you must use single-sided memory SIMMs when upgrading the printer's memory, if you intend to fill both memory slots. Double-sided SIMMs are recognized as two individual memory banks and could, therefore, cause problems when the printer attempts to address the memory SIMM in the other slot.

For the LaserWriter 12/640 PS printer, the SIMMs must have a 2 KB row (11 bit x 11 bit) refresh configuration. 16 MB SIMMs with a 4 KB row (10 bit X 12 bit) refresh configuration are not compatible with the printer.

Article Change History

28 Jun 1996 - Added additional note about the LW 360 and info for 12/640.

07 Mar 1996 - Updated Color LaserWriter 12/600 PS note.

15 Sep 1995 - Added Color LaserWriter 12/600 PS.

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