



# Tech Info Library

## Macintosh Plus: 120ns SIMMs (4/93)

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### Article Change History

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04/07/93 - REWROTE

- Separated this information from a previous, unrelated article.

### TOPIC -----

The Macintosh Plus came with Apple-labelled DIP SIMMs silk-screened as being for Macintosh Plus or Macintosh SE only, rated at 120ns. I understand that DIP SIMMs are not to be used for upgrades on Macintosh Plus and Macintosh SE systems because of space constraints for hardware additions. But why are 120ns SIMMs unacceptable for Macintosh II computers, since that is the nominal rating for the ones Apple ships in production Macintosh II computers?

### DISCUSSION -----

The SIMMs you are referring to are for finished goods systems only and are not included in any memory expansion kits. These SIMMs will either be 150ns or 120ns and have a different refreshing scheme (RAS before CAS) than what is supported by the Macintosh II (CAS before RAS). This is why the silk-screening identifies these SIMMs as for the Macintosh Plus and Macintosh SE only.

These SIMMs will fit in all four SIMM positions in the Macintosh Plus and in SIMM positions 3 and 4 of the Macintosh SE.

The 120ns version of these SIMMs work properly in the Macintosh SE/30, Macintosh IIX, and Macintosh IICX.

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