



# Tech Info Library

## LaserWriter IINTX: RAM Allocation

Revised: 3/1/91  
Security: Everyone

LaserWriter IINTX: RAM Allocation

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This article last reviewed: 21 January 1991

TOPIC -----

How much RAM is needed to get a second page buffer with legal-size paper on LaserWriter IINTX?

DISCUSSION -----

Additional RAM does not provide space for a "second page buffer" in the LaserWriter IINTX. We found the following information on page 122 of the "LaserWriter IINT/NTX Owner's Guide" (ROM revision 3.0 version):

### Memory Upgrades

You can install up to 12MB of RAM in the LaserWriter IINTX. You can also add a font expansion card. These memory upgrades are not possible on the LaserWriter IINT.

RAM upgrades for the LaserWriter IINTX provide the following benefits:

- the ability to print very complex documents (graphics and CAD documents, for example) that might not print on printers with less memory
- faster performance on complex documents
- faster performance when using downloaded fonts
- faster performance when printing documents that have been scaled down from larger originals (organization charts, maps, flow charts, for example)
- The ability to increase the imageable area of a document (you can use more of a sheet of legal paper, for example)

Adding more RAM provides these benefits in three ways:

- More RAM allows more fonts to be downloaded (sent over the network) to the printer at any one time. The printer is less likely to need to retrieve large font files over busy network cables, saving you time and improving the performance of the entire network.
- More RAM increases the space available for font caching. Before the LaserWriter IINTX can print, it converts the PostScript outline fonts into bitmaps, which it stores (caches) in RAM. When the demand for RAM exceeds the supply, the printer discards the less recently used bitmaps in favor of the newer ones. When the discarded bitmaps are needed again, the printer must rebuild them. With additional RAM, the printer will need to rebuild bitmaps less often.
- Finally, more RAM gives your printer more space to store the calculations it uses to compute large or complex page layouts. This is why you can print more complex documents and use a larger imageable area when you install more RAM.

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Tech Info Library Article Number:6655