DESK RAM™ Cartridge

128K Expansion Memory Cartridge for HP DeskJet Printer

- 128K Expansion RAM
- Required with soft fonts!
- Fully compatible with hard font cartridges.

Easy to use!

- Slides into cartridge slot on the top of the printer.

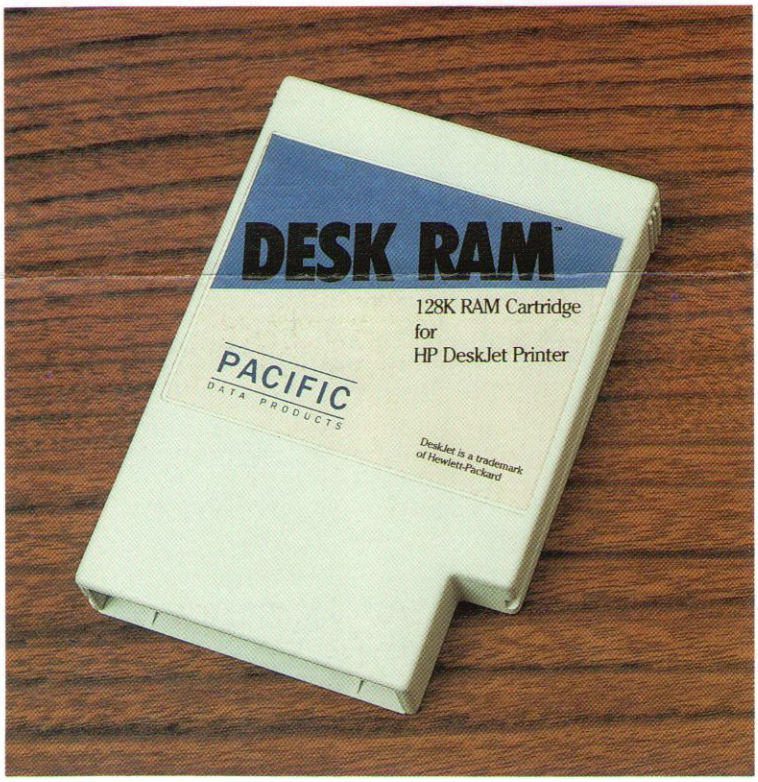
Expand Memory to 256K

- Use one cartridge for 128K of expansion memory.
- Use two cartridges for full 256K capacity.
- Expansion Memory of 256K required for popular fonts such as Helvetica.

Full One Year Warranty

The DESK RAM Cartridge is backed by a full one year warranty. All parts and workmanship are guaranteed to be free from defects. Pacific Data stands by its reputation for first rate service.

Specialists in Enhancement Products for Printers



Capacity: 128K Memory Cartridge. Four 32K x 8 SRAMS are used in the cartridge.

Compatibility: Pacific Data's DESK RAM 128K Memory cartridge is fully compatible with Hewlett-Packard's DeskJet printer. No additional memory is needed. Two cartridges can be used simultaneously for 256K.

Installation: No special tools are required, the cartridges slide into the option slot on the top of the printer.

Operating Temperature: 50 to 90 degrees

Size: 4.5" x 3"

Weight: 3.5 oz.

PACIFIC
DATA PRODUCTS

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UPGRADEABLE MEMORY BOARD

1-2-4© Memory Board
For Laser Printers

Expansion Memory Board for:

- HP LaserJet Series II
- Canon LBP-811
- Olivetti PG-108

and other popular laser printers.

Fully Upgradeable

- Buy only the memory you need! Upgrade as your applications change.
- The only socketed, upgradeable memory board on the market!

The 1-2-4™ Memory Board

Available in 0 MB

- You plug in the chips for 1, 2 or 4 megabytes of memory.

or 1 Megabyte

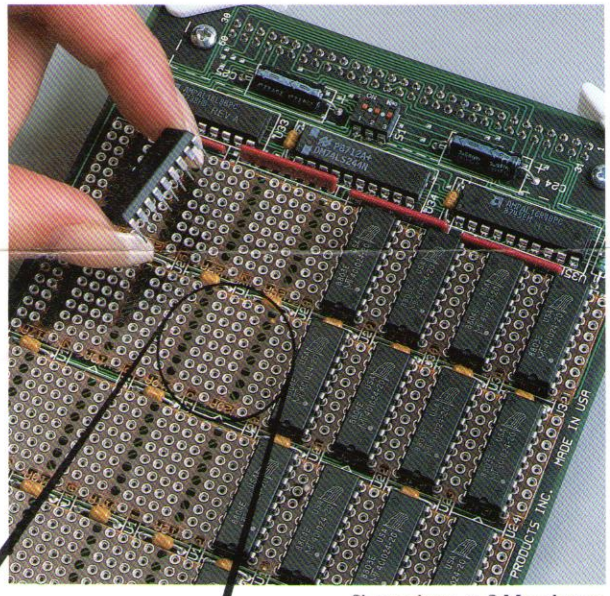
- Assembled with 32 - 256k DRAMS.
- You can add more chips for 2 or 4 Megabytes.
- Use to download fonts & forms; and to print full page 300 dpi graphics.

or 2 Megabytes

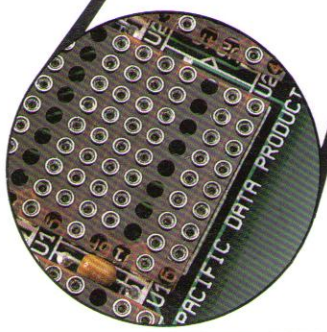
- Assembled with 16 - 1 megabit DRAMS.
- You can add more chips for 4 Megabytes.
- Use for most desktop publishing programs, and graphics including scanned images.

or 4 Megabytes

- Assembled with 32 - 1 megabit DRAMS.
- For the maximum in expansion memory.
- Download numerous fonts and forms.
- Use for extensive graphics, scanned images, or CAD/CAM applications.
- A must for shared printer environments.



Shown here at 2 Megabytes.



Pacific Data Products' unique socket arrangement makes the 1-2-4™ board FULLY UPGRADEABLE!

- Custom socket array* accepts 256k or 1 megabit memory chips.
- Populate the 1-2-4 Board at 1, 2 or 4 Mb of expansion memory!
- Start at 0 Mb and simply plug in memory chips.

Easy to Install - Slips easily into the printer's RAM expansion slot.

Full One Year Warranty

The 1-2-4 board is backed by a full one year warranty. All parts and workmanship are guaranteed to be free from defects. Pacific Data stands by its reputation for first rate service.

*Patient applied for

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Specifications

Capacity

1 Mg: 1048576 bytes 32-256K
2 MB: 2097152 bytes 16-1 MBIT 1000 x 1
4 MB: 4194304 bytes 32-1 MBIT 1000 x 1

Compatibility

Memory boards from Pacific Data Products, Inc. are fully compatible with the Hewlett Packard Series II LaserJet, the Olivetti PG-108, as well as the Canon LBP-8II and their memory boards. 256K and 1 MBIT memory chips may not be mixed on one board. Eight 1 MBIT chips will not function as a 1 MBYTE board. Some suggested memory chips are:

	256K Part #	1 MBIT Part #
Toshiba	TMM41256C	TC511000
NEC	uPD41256	uPD411000
Hitachi	HM50256	HM511000P
Fujitsu	MB81256	MB811000
T.I.	TMS4256	TMX4C1024
Micron	MT1256	MT4C1024
Okidata	MSM41256	MSM411000

Note: All memory chips must be 150 NS or faster.

Installation

No special tools are required to install your memory board.
Remove the cover with a Phillips screwdriver and simply set the switches on the memory board. Insert the board into the memory slot of the Printer.

Operating Temperature

50 to 91 degrees F. (32 to 95 degrees F. non-operating)

Operating Humidity

20% to 80% Relative Humidity (10% to 80% non-operating)

Size

Length: 5.45″
Width: 4.3″

Weight

5.5 ounces

Ordering Information

All other specifications are consistent with HP, Canon and Olivetti guidelines.
The part numbers for these items are as follows:

Item	HP or Olivetti Part #	Canon Part #
0 MB Memory Board	P0A	C0A
1 MB Memory Board	P1A	C1A
2 MB Memory Board	P2A	C2A
4 MB Memory Board	P4A	C4A

The 1-2-4™ board is a registered trademark of Pacific Data Products, Inc.
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LBP-8II is a trademark of Canon USA.
PG-108 is a trademark of Olivetti.

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