

General Description

Newport Digital's memory for the HP D-Class systems consists of two 72-pin ECC memory cards. The sets can be configured with 64, 128, 256, or 512 megabytes dynamic rams (drams). The access speed of the drams can be 50 or 60 nanosecond, and the type of dram can be fast page (FP) mode or extended data out (EDO). The systems do not support the slightly faster cycle and access times (e.g. 50 nanosecond drams default to 60 nanosecond). The D200, D210, D220, D230, D310, D320, and D330 systems can be configured with 4 sets. The D250, D260, D270, D280, D350, D360, D370, D380 and D390 can be configured with 6 sets.

System Compatibility

The memory is fully compatible with the HP 9000 D-Class Enterprise Servers: D200, D210, D220, D230, D250, D260, D270, D280, D310, D320, D330, D350, D360, D370, and D380 systems.

Maximum System Memory

The maximum system memory for the D200, D210, D220, D230, D310, D320, and D330 is 2 GB.

The maximum system memory for the D250, D260, D270, D280, D350, D360, D370, D380 and D390 is 3 GB.

Installation Procedure

The installation procedure is quick and easy. Power the system down. Remove the processor card from the system. Add the memory cards to the processor card using the appropriate guidelines. Slide the processor card back into the system. Power the system up. Verify that the system has the expected RAM size.

Power Requirements

64 Megabytes	1.40 Amps Max	1.00 Amps Typical
128 Megabytes	1.50 Amps Max	1.00 Amps Typical
256 Megabytes	1.40 Amps Max	1.00 Amps Typical
512 Megabytes	1.50 Amps Max	1.00 Amps Typical

Cycle and Access Times

The memory cycle and access times for the 11-17-0xxx cards are identical to those of the HP A3499A, A3408A, and A3564A memory cards. The memory cycle and access times for the 11-23-0512 cards are identical to those of the HP A3717A memory cards.

Operating Limits

Operating Temperature:	0-70 degrees Centigrade
Operating Humidity:	0-95 percent with no condensation

HP Documentation

HP 9000 D-Class Owner's Guide
HP 9000 D-Class Server System Memory Upgrade Guide (A3262-90003)

Product Warranty

The memory has an unconditional lifetime warranty.

Ordering Information

<u>Product Description</u>	<u>HP Equivalent</u>	<u>Newport Digital Part Number</u>
HP D2xx/D3xx Memory – 64MB (60ns / FP)	A3499A	11-17-0064
HP D2xx/D3xx Memory – 128MB (60ns / FP)	A3408A	11-17-0128
HP D2xx/D3xx Memory – 256MB (60ns / EDO)	A3564A	11-17-0256
HP D2xx/D3xx Memory – 512MB (50ns / EDO)	A3717A	11-23-0512

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