

## General Description

Newport Digital's memory for the HP K-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 K3x0 and K5x0 systems support the slightly faster cycle and access times when all the cards installed in the system use 50 nanosecond drams. If any of the cards use 60 nanosecond drams, all of the cards will default to the slightly slower cycle and access times. In addition, the EDO drams provide a slight increase in performance if all of the cards in the system use EDO drams and the system has the processor dependent code (PDC) that supports EDO (see HP documentation for more information). The K100 system can be configured with 4 sets. The K2x0 systems are configured with one memory carrier. The K3x0, K4x0, and K5x0 systems can be configured with one or two carriers. A memory carrier can be configured with 1 to 8 sets of memory.

## System Compatibility

The memory is fully compatible with the HP 9000 K-Class Enterprise Servers: K100, K200, K210, K220, K250, K260, K370, K380, K400, K410, K420, K450, K460, K570 and K580 systems.

## Maximum System Memory

The maximum system memory for the K100 is 2 GB, and the maximum system memory for the K2xx and K3xx is 4 GB. The maximum system memory for the K4xx and K5xx is 8 GB. If HP-UX 10.xx is the OS, then the maximum system memory is 4 GB with only 3.75 GB (3840 MB) of addressable memory.

## Installation Procedure

The installation procedure is quick and easy. Power the system down. Remove the memory carrier(s) from the system. Add the memory card to the memory carriers using the appropriate guidelines. Slide the memory carrier(s) 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 A3026A, A3543A, A3027A, and A3483A memory cards. The memory cycle and access times for the 11-23-0xxx cards are identical to those of the HP A4516A, A4517A, and A3737A memory cards.

## Operating Limits

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

## HP Documentation

HP 9000 Series 800 Model K Owner's Guide (A2375-90003)  
 HP 3000/9x9KS and HP9000/Kxx0 System Memory Upgrade Guide (A2375-90009)  
 HP 9000 K370/K380 and HP K570/K580 Computer Systems Upgrade Procedure Guide (A3687-90001)  
 HP 9000 K Series System Service Manual (A2375-90004)

## Product Warranty

The memory has an unconditional lifetime warranty.

## Ordering Information

Product Description	HP Equivalent	Newport Digital Part Number
HP Kxx Memory – 64MB (60ns / FP)	A3543A	11-17-0064
HP Kxx Memory – 128MB (60ns / FP)	A3027A	11-17-0128
HP Kxx Memory – 256MB (60ns / EDO)	A3483A	11-17-0256
HP Kxx Memory – 64MB (50ns / EDO)	None	11-23-0064
HP Kxx Memory – 128MB (50ns / EDO)	A4516A	11-23-0512
HP Kxx Memory – 256MB (50ns / EDO)	A4517A	11-23-0256
HP Kxx Memory – 512MB (50ns / EDO)	A3737A	11-23-0512

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