

# Memory Module Specifications

## KVR400D2D4R3/4G

4GB 512M x 72-Bit DDR2-400

CL3 Registered 240-Pin ECC DIMM

### DESCRIPTION

This document describes ValueRAM's 512M x 72-bit 4GB (4096MB) DDR2-400 CL3 SDRAM (Synchronous DRAM) "dual rank" registered ECC memory module. The components on this module include eighteen stacked 512M x 4-Bit (thirty-six 256M x 4-bit) DDR2-400 SDRAM. This 240-pin DIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

### SPECIFICATIONS

Clock Cycle Time (tCK) CL=3	5ns (min.) / 8ns (max.)
Row Cycle Time (tRC)	55ns (min.)
Refresh to Active/Refresh Command Time (tRFC)	105ns
Row Active Time (tRAS)	40ns (min.) / 70,000ns (max.)
Single Power Supply of	+1.8V (+/- .1V)
Power	5.310 W (operating)
UL Rating	94 V - 0

Note: The module defined in this data sheet is one of several configurations available under this part number. While all configurations are compatible, the DRAM combination and/or the module height may vary from what is described here.

Figure 1: KVR400D2D4R3/4G 240-Pin DIMM

