

# Memory Module Specifications

## KVR533D2N4/2G

2GB 256M x 64-Bit DDR2-533

CL4 240-Pin DIMM

### DESCRIPTION

This document describes ValueRAM's 256M x 64-bit 2GB (2048MB) DDR2-533 CL4 SDRAM (Synchronous DRAM) memory module. The components on this module include sixteen 128M x 8-bit (16M x 8-bit x 8 Bank) DDR2-533 SDRAM in FBGA packages. 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=4	3.75ns (min.) / 8ns (max.)
Row Cycle Time (tRC)	55ns (min.)
Refresh to Active/Refresh Command Time (tRFC)	127.5ns
Row Active Time (tRAS)	40ns (min.) / 70,000ns (max.)
Single Power Supply of	+1.8V (+/- .1V)
Power	3.225 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: KVR533D2N4/2G 240-Pin DIMM

