

## KVR1066D3D8R7SK2/8G

8GB (4GB 512M x 72-Bit x 2 pcs.) PC3-8500

CL7 Registered w/Parity 240-Pin ECC DIMM

### DESCRIPTION

ValueRAM's KVR1066D3D8R7SK2/8G is a kit of two 512M x 72-bit (4GB) DDR3-1066 CL7 SDRAM (Synchronous DRAM) registered w/parity, dual-rank ECC memory modules, based on eighteen 256M x 8-bit DDR3-1066 FBGA components per module. Total kit capacity is 8GB. The SPDs are programmed to JEDEC standard latency 1066Mhz timing of 7-7-7 at 1.5V. Each 240-pin DIMM uses gold contact fingers and requires +1.5V. The electrical and mechanical specifications are as follows:

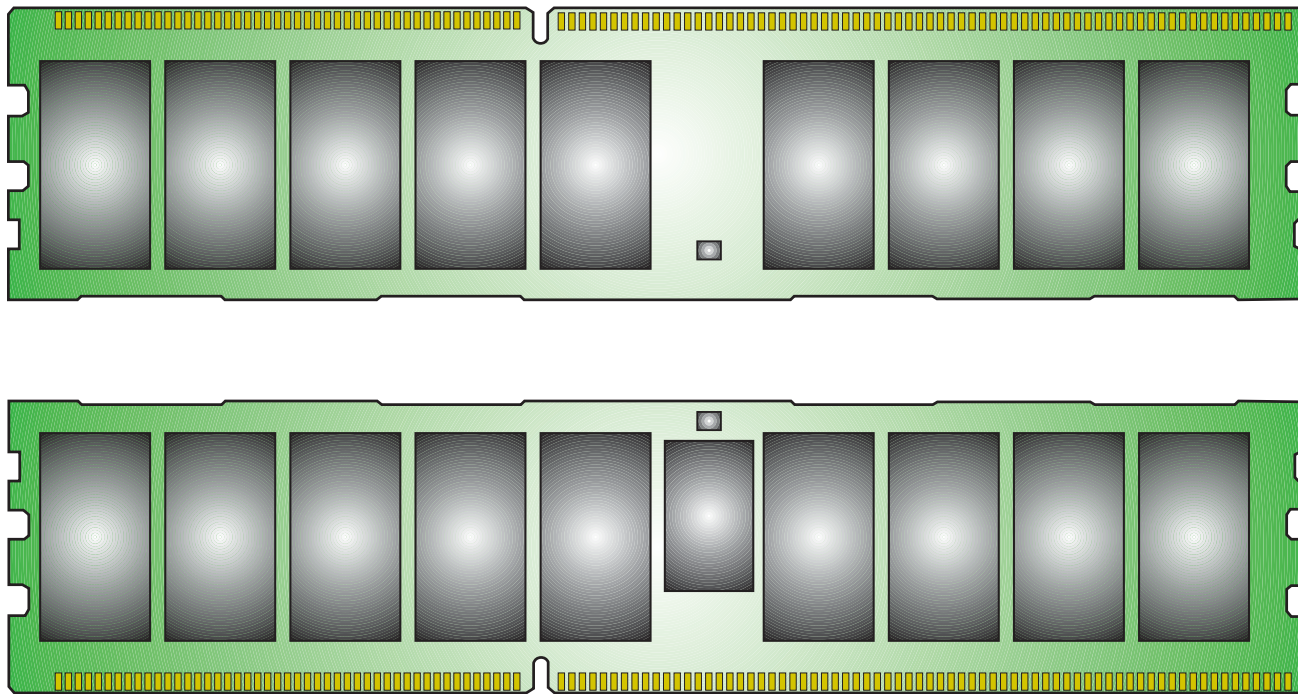
### FEATURES

- JEDEC standard 1.5V  $\pm$  0.075V Power Supply
- VDDQ = 1.5V  $\pm$  0.075V
- 533MHz fCK for 1066Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 6,7,8,9,10
- Programmable Additive Latency: 0, CL - 2, or CL - 1 clock
- Programmable CAS Write Latency(CWL) = 6(DDR3-1066)
- 8-bit pre-fetch
- Burst Length: 8 (Interleave without any limit, sequential with starting address "000" only), 4 with tCCD = 4 which does not allow seamless read or write [either on the fly using A12 or MRS]
- Bi-directional Differential Data Strobe
- Internal(self) calibration : Internal self calibration through ZQ pin (RZQ : 240 ohm  $\pm$  1%)
- On Die Termination using ODT pin
- On-DIMM thermal sensor (Grade B)
- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE  $\leq$  95°C
- Asynchronous Reset
- PCB : Height 1.180" (30.00mm), double sided component

### SPECIFICATIONS

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| CL(IDD)                                          | 7 cycles                       |
| Row Cycle Time (tRCmin)                          | 50.625ns (min.)                |
| Refresh to Active/Refresh Command Time (tRFCmin) | 160ns (min.)                   |
| Row Active Time (tRASmin)                        | 37.5ns (min.)                  |
| Power                                            | 3.195 W (operating per module) |
| UL Rating                                        | 94 V - 0                       |
| Operating Temperature                            | 0° C to 85° C                  |
| Storage Temperature                              | -55° C to +100° C              |

Continued >>

**MODULE DIMENSIONS:**

(units = millimeters)

