# Memory Module Specifications



# KVR1066D3Q8R7SK2/16GI

16GB (8GB 1Gb x 72-Bit x 2 pcs.) PC3-8500 CL7 Registered w/Parity 240-Pin DIMM Kit

## **DESCRIPTION**

ValueRAM's KVR1066D3Q8R7SK2/16GI is a kit of two 1Gb x 72-bit (8GB) DDR3-1066 CL7 SDRAM (Synchronous DRAM) registered w/parity, quad-rank memory modules, Intel® Compatibility Tested, based on thirty-six 256M x 8-bit DDR3-1066 FBGA components per module. Total kit capacity is 16GB. 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 ± 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
- 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 ± 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 ≤ 95°C</li>
- · Asynchronous Reset
- PCB: Height 1.180" (30.00mm), double sided component

## **SPECIFICATIONS**

7 cycles
50.63ns (min.)
160ns (min.)
37.5ns (min.)
3.705 W (operating per module)
94 V - 0
0° C to 85° C
-55° C to +100° C

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## **MODULE DIMENSIONS:**

