

# KVR1333D3S8R9SK4/8G

8GB (2GB 256M x 72-Bit x 4 pcs.) PC3-10600 CL9 Registered w/Parity 240-Pin DIMM Kit

#### DESCRIPTION

ValueRAM's KVR1333D3S8R9SK4/8G is a kit of four 256M x 72-bit (2GB) DDR3-1333 CL9 SDRAM (Synchronous DRAM), registered w/parity, 1Rx8 ECC memory modules, based on nine 256M x 8-bit FBGA components per module. Total kit capacity is 8GB. The SPD's are programmed to JEDEC standard latency DDR3-1333 timing of 9-9-9 at 1.5V. Each 240-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

### **FEATURES**

- JEDEC standard 1.5V (1.425V ~1.575V) Power Supply
- VDDQ = 1.5V (1.425V ~ 1.575V)
- 667MHz fCK for 1333Mb/sec/pin
- · 8 independent internal bank
- Programmable CAS Latency: 9, 8, 7, 6
- Programmable Additive Latency: 0, CL 2, or CL 1 clock
- Programmable CAS Write Latency(CWL) = 7 (DDR3-1333)
- · 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**

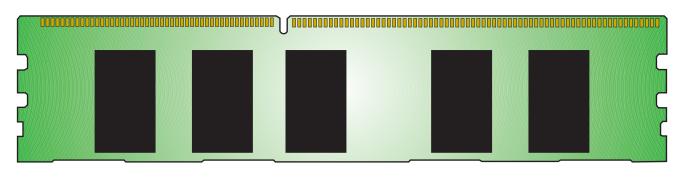
9 cycles
49.5ns (min.)
160ns (min.)
36ns (min.)
1.545 W* (per module)
94 V - 0
0° C to 85° C
-55° C to +100° C

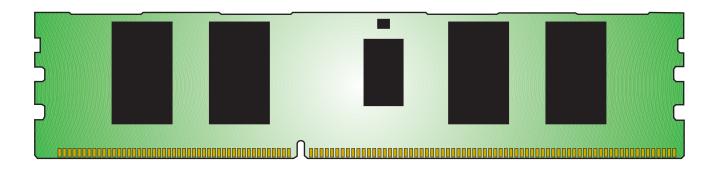
<sup>\*</sup>Power will vary depending on the SDRAM and Register/PLL used.

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# **MODULE DIMENSIONS:**





(units = millimeters)

