

## KVR13N9K2/16

16GB (8GB 2Rx8 1G x 64-Bit x 2 pcs.) PC3-10600 CL9 240-Pin DIMM Kit

#### DESCRIPTION

ValueRAM's KVR13N9K2/16 is a kit of two 1G x 64-bit (8GB) DDR3-1333 CL9 SDRAM (Synchronous DRAM), 2Rx8, memory modules, based on sixteen 512M x 8-bit FBGA components per module. Total kit capacity is 16GB. The SPDs 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
- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE ≤ 95°C</li>
- Asynchronous Reset
- PCB: Height 0.740" (18.75mm) or 1.180" (30.00mm)

**Important Information:** 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.

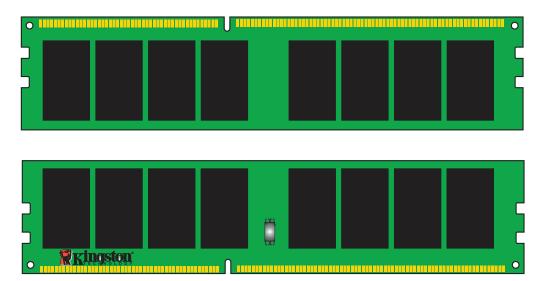
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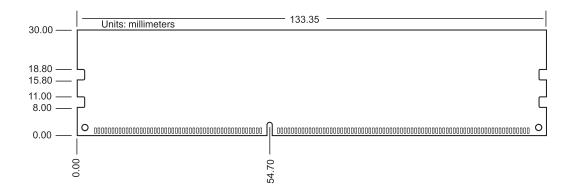
## SPECIFICATIONS

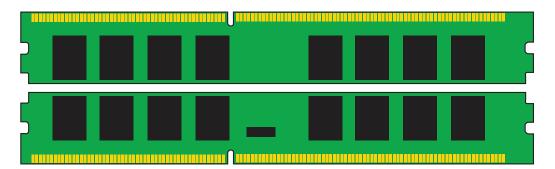
| CL(IDD)   | 9 cycles            |
|---|---------------------|
| Row Cycle Time (tRCmin)                             | 49.125ns (min.)     |
| Refresh to Active/Refresh<br>Command Time (tRFCmin) | 260ns (min.)        |
| Row Active Time (tRASmin)                           | 36ns (min.)         |
| Maximum Operating Power                             | TBD W* (per module) |
| UL Rating   | 94 V - 0            |
| Operating Temperature                               | 0° C to 85° C       |
| Storage Temperature                                 | -55° C to +100° C   |
|   |                     |

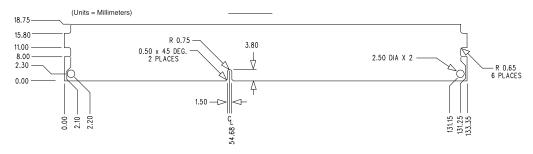
\*Power will vary depending on the SDRAM used.

### **MODULE DIMENSIONS:**









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