

## KVR24R17S8K4/32I

32GB (8GB 1Rx8 1G x 72-Bit x 4 pcs.) PC4-2400  
CL17 Registered w/Parity 288-Pin DIMM Kit

### DESCRIPTION

ValueRAM's KVR24R17S8K4/32I is a kit of four 1G x 72-bit (8GB) DDR4-2400 CL17 SDRAM (Synchronous DRAM) registered w/ parity, 1Rx8, ECC, Intel® Compatibility Tested, memory module, based on nine 1G x 8-bit FBGA components per module. Total kit capacity is 32GB. The SPD is programmed to JEDEC standard latency DDR4-2400 timing of 17-17-17 at 1.2V. Each 288-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

### FEATURES

- Power Supply: VDD=1.2V (1.14V to 1.26V)
- VDDQ = 1.2V (1.14V to 1.26V)
- VPP - 2.5V (2.375V to 2.75V)
- VDDSPD=2.25V to 2.75V
- Functionality and operations comply with the DDR4 SDRAM datasheet
- 16 internal banks
- Bank Grouping is applied, and CAS to CAS latency (tCCD\_L, tCCD\_S) for the banks in the same or different bank group accesses are available
- Data transfer rates: PC4-2400, PC4-2133, PC4-1866, PC4-1600
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Supports ECC error correction and detection
- On-Die Termination (ODT)
- Temperature sensor with integrated SPD
- This product is in compliance with the RoHS directive.
- Per DRAM Addressability is supported
- Internal Vref DQ level generation is available
- Write CRC is supported at all speed grades
- CA parity (Command/Address Parity) mode is supported

### SPECIFICATIONS

|  |                   |
|--|-------------------|
| CL(IDD)  | 17 cycles         |
| Row Cycle Time (tRCmin)                                  | 46.16ns(min.)     |
| Refresh to Active/Refresh Command Time 1x mode (tRFCmin) | 350ns(min.)       |
| Row Active Time (tRASmin)                                | 32.00ns(min.)     |
| Maximum Operating Power                                  | TBD W*            |
| 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.

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### MODULE DIMENSIONS

