

**KVR56U46BD8-32**

32GB 2Rx8 4G x 64-Bit

PC5-5600 CL46 288-Pin DIMM

**DESCRIPTION**

This document describes ValueRAM's KVR56U46BD8-32 is a 4G x 64-bit (32GB) DDR5-5600 CL46 SDRAM (Synchronous DRAM), 2Rx8, memory module, based on sixteen 2G x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR5-5600 timing of 46-45-45 at 1.1V. Each 288-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

**FEATURES**

- Power Supply: VDD = 1.1V Typical
- VDDQ = 1.1V Typical
- VPP = 1.8V Typical
- VDDSPD = 1.8V to 2.0V
- On-Die ECC
- PCB: Height 1.23" (31.25mm)
- RoHS Compliant and Halogen-Free

**SPECIFICATIONS**

CL(IDD)	46 cycles
Row Cycle Time (tRCmin)	48ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	295ns(min.)
Row Active Time (tRASmin)	32ns(min.)
UL Rating	94 V - 0
Operating Temperature	0° C to +85° C
Storage Temperature	-55° C to +100° C

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The image displays two views of a 16GB DDR4 memory module. The top view shows the front side of the module, which is green. It features four dark grey memory chips on the left and four on the right, arranged in a 2x2 grid. In the center, there is a small cluster of chips, including a larger one. The bottom view shows the back side of the module, which is also green. It features four dark grey memory chips on the left and four on the right, arranged in a 2x2 grid. In the center, there is a small cluster of chips, including a larger one. Both views show a gold-plated edge connector with 288 pins. The module has a notch in the center of the bottom edge.

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