Memory Module Specifi cations

KVR32S22S6/8

8GB 1Rx161G x64-Bit PC4-3200
CL22 260-Pin SODIMM

DESCRIPTION

Thisdocument describes ValueRAM's KVR32S22S6/8 as a 1G x 64-bit (8GB) DDR4-3200 CL22 SDRAM (Synchronous DRAM), 1Rx16, memory module, based on four 1G x 16-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR4-3200 timing of 22-22-22 at 1.2V. This 260-pin SODIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

FEATURES

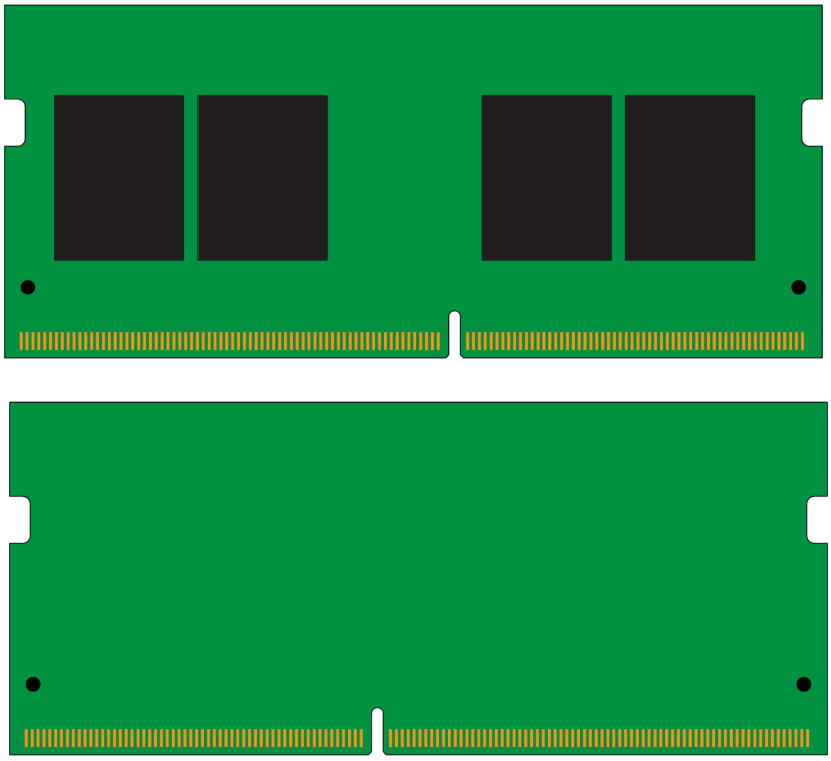
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.2V to 3.6V
- Nominal and dynamic on-die termination (ODT) for data, strobe, and mask signals
- Low-power auto self refresh (LPASR)
- Data bus inversion (DBI) for data bus
- On-die VREFDQ generation and calibration
- Single-rank
- On-board I2 serial presence-detect (SPD) EEPROM
- 8 internal banks; 2 groups of 4 banks each
- Fixed burst chop (BC) of 4 and burst length (BL) of 8 via the mode register set (MRS)
- Selectable BC4 or BL8 on-the-fly (OTF)
- Fly-by topology
- Terminated control command and address bus
- PCB: Height 1.18” (30.00mm)
- RoHS Compliant and Halogen-Free

SPECIFICATIONS

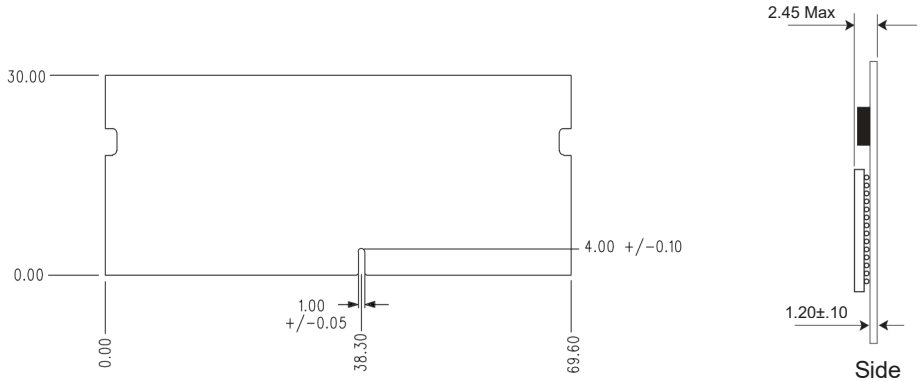
CL(IDD)	22 cycles
Row Cycle Time (tRCmin)	45.75ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns(min.)
Row Active Time (tRASmin)	32ns(min.)
UL Rating	94 V - 0
Operating Temperature	0o C to +85° C
Storage Temperature	-55° C to +100° C

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MODULE DIMENSIONS



All measurements are in millimeters.
(Tolerances on all dimensions are ±0.12 unless otherwise specified)



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