

KSM29RS8/16MER

16GB 1Rx8 2G x 72-Bit PC4-2933

CL21 Registered w/Parity 288-Pin DIMM

DESCRIPTION

Kingston's KSM29RS8/16MER is a 2G x 72-bit (16GB) DDR4-2933 CL21 SDRAM (Synchronous DRAM) registered w/ parity, 1Rx8, ECC, memory module, based on nine 2G x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR4-2933 timing of 21-21-21 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
- VDDQ = 1.2V
- VPP = 2.5V
- VDDSPD = 2.41V 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: PC4-2933, PC4-2666, 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)	21 cycles
Row Cycle Time (tRCmin)	46.32ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns(min.)
Row Active Time (tRASmin)	32ns(min.)
Maximum Operating Power	*
UL Rating	94 V - 0
Operating Temperature	0° C to +85° C
Storage Temperature	-55° C to +100° C

*See IDD Specifications (page 2)

Module Assembly**DRAM:** MICRON (E-DIE)**RCD:** Rambus

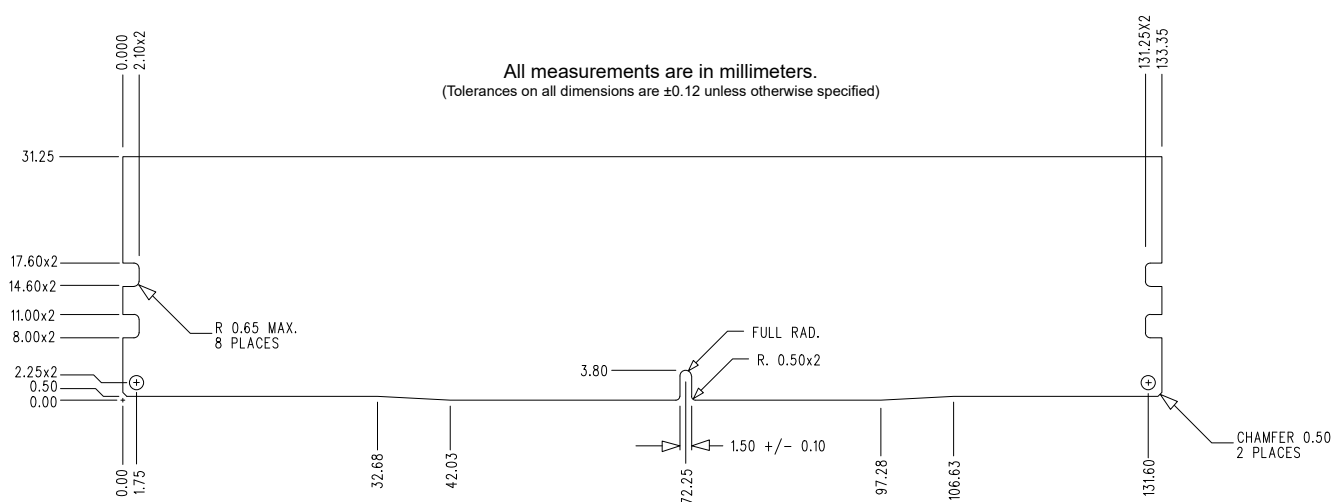
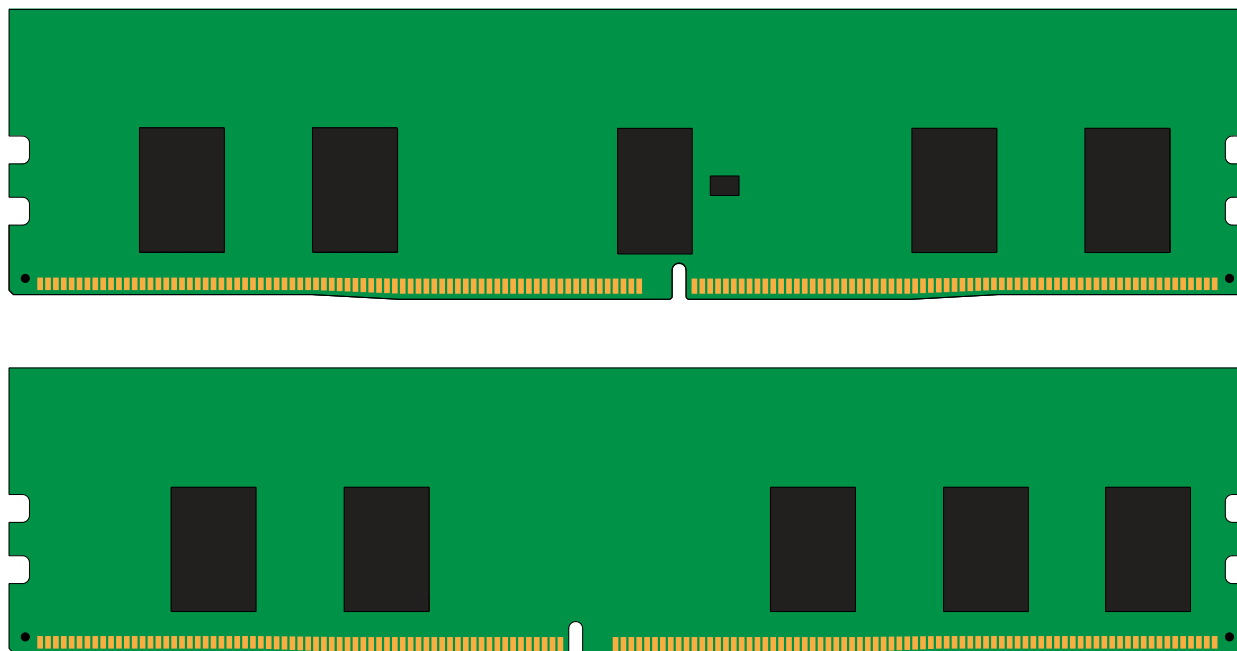
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IDD Specifications

Symbol	2933	Units
I_{DD0}^1	531	mA
I_{PP0}^1	27	mA
I_{DD1}^1	630	mA
I_{DD2N}^2	396	mA
I_{DD2NT}^1	450	mA
I_{DD2P}^2	342	mA
I_{DD2Q}^2	378	mA
I_{DD3N}^2	540	mA
I_{PP3N}^2	18	mA
I_{DD3P}^2	441	mA
I_{DD4R}^1	1386	mA
I_{DD4W}^1	1107	mA
I_{DD5R}^1	612	mA
I_{PP5R}^1	36	mA
I_{DD6N}^2	477	mA
I_{DD6E}^2	1017	mA
I_{DD6R}^2	180	mA
I_{DD6A}^2	99	mA
I_{DD6A}^2	180	mA
I_{DD6A}^2	459	mA
I_{DD6A}^2	1017	mA
I_{PP6X}^2	54	mA
I_{DD7}^1	1647	mA
I_{PP7}^1	72	mA
I_{DD8}^2	324	mA

continued

MODULE DIMENSIONS



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