

KSM32RS8/8MRR

8GB 1Rx8 1G x 72-Bit PC4-3200 CL22 Registered w/Parity 288-Pin DIMM

DESCRIPTION

Kingston's KSM32RS8/8MRR is a 1G x 72-bit (8GB)
DDR4-3200 CL22 SDRAM (Synchronous DRAM) registered w/
parity, 1Rx8, ECC, memory module, based on nine 1G x 8-bit
FBGA components. The SPD is programmed to JEDEC
standard latency DDR4-3200 timing of 22-22-22 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: PC4-3200, 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)	22 cycles	
Row Cycle Time (tRCmin)	45.75ns(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 (R-DIE)

RCD: Rambus

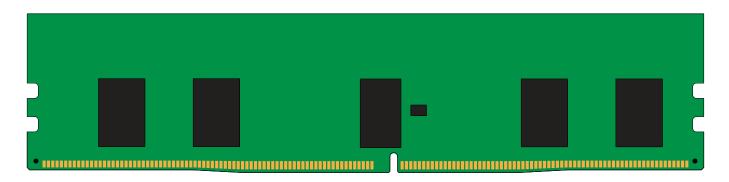
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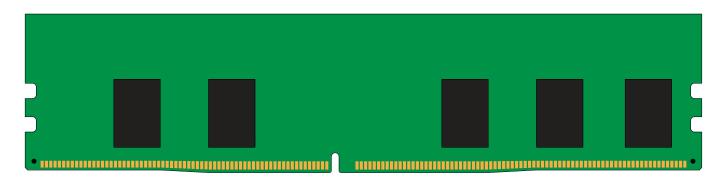
IDD Specifications

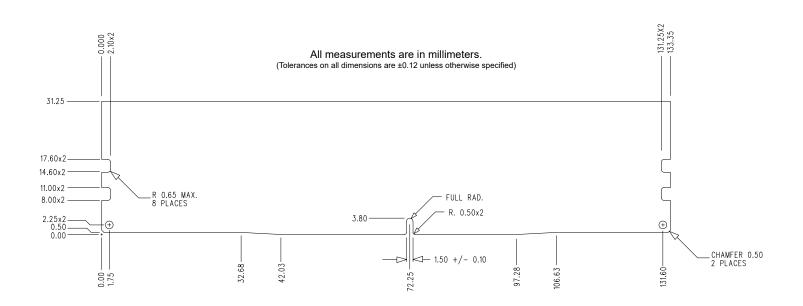
Symbol	3200	Units
I _{DD0}	432	mA
I _{PP0}	36	mA
I _{DD1}	495	mA
I _{DD2N}	342	mA
I _{DD2NT}	369	mA
I _{DD2P}	270	mA
I _{DD2Q}	306	mA
I _{DD3N}	387	mA
I _{PP3N}	27	mA
I _{DD3P}	297	mA
I _{DD4R}	1107	mA
I _{DD4W}	954	mA
I _{DD5R}	423	mA
I _{PP5R}	45	mA
I _{DD6N}	288	mA
I _{DD6E}	468	mA
I _{DD6R}	171	mA
I _{DD6A}	72	mA
I _{DD6A}	171	mA
I _{DD6A}	261	mA
I _{DD6A}	468	mA
I _{PP6X}	45	mA
I _{DD7}	1395	mA
I _{PP7}	72	mA
I _{DD8}	216	mA

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MODULE DIMENSIONS







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