

Memory Module Specifications

KSM26RD4/32HCI

32GB 2Rx4 4G x 72-Bit PC4-2666

CL19 Registered w/Parity 288-Pin DIMM

DESCRIPTION

Kingston's KSM26RD4/32HCI is a 4G x 72-bit (32GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM) registered w/ parity, 2Rx4, ECC, memory module, based on thirty-six 2G x 4-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR4-2666 timing of 19-19-19 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: PC4-2666, 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)	19 cycles
Row Cycle Time (tRCmin)	46.25ns(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 Table (page 2)

Module Assembly

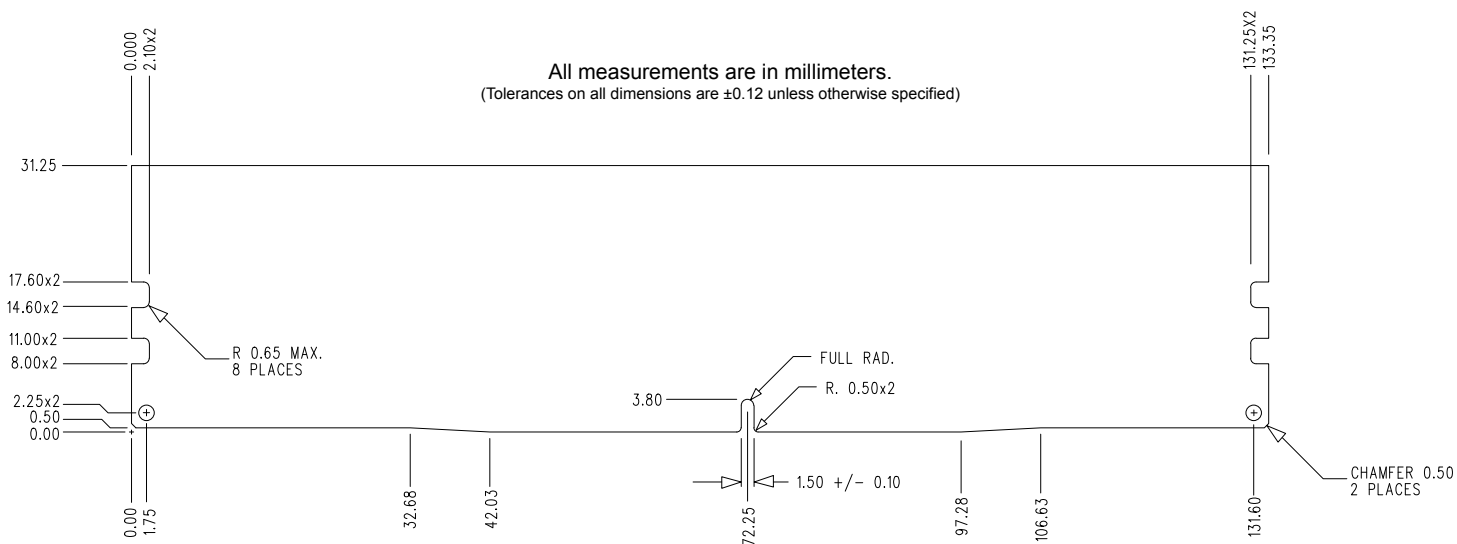
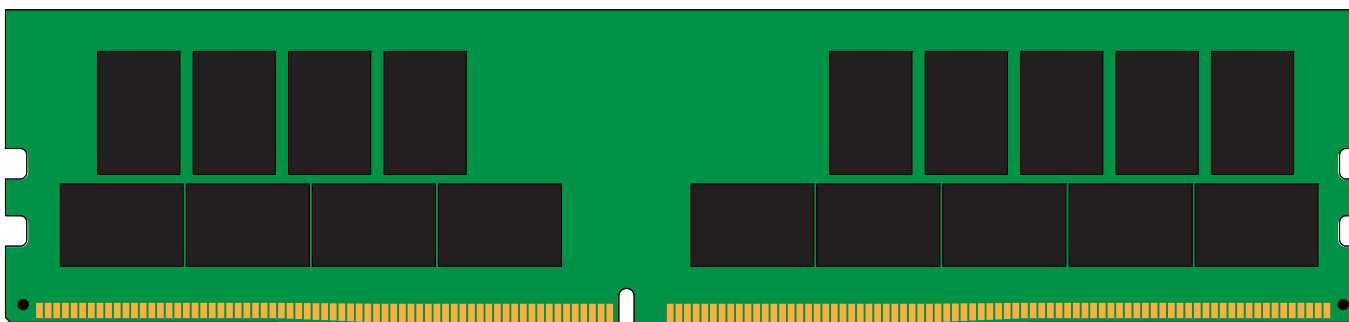
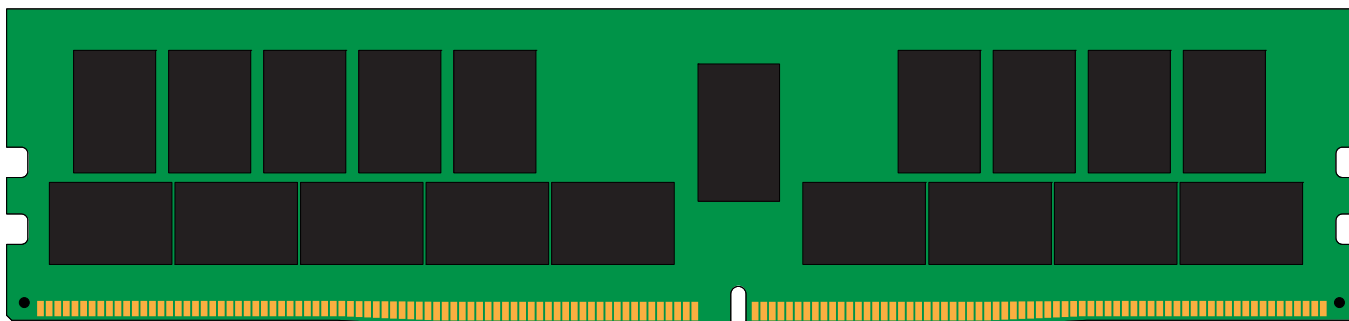
DRAM: HYNIX (C-DIE)
RCD: IDT

IDD Specifications

IDD		unit
Symbol	2666	
IDD0	1669	mA
IDD0A	1687	mA
IDD1	1857	mA
IDD1A	1875	mA
IDD2N	1507	mA
IDD2NA	1507	mA
IDD2NT	1687	mA
IDD2NL	1255	mA
IDD2NG	1507	mA
IDD2ND	1471	mA
IDD2NP	1507	mA
IDD2P	1033	mA
IDD2Q	1399	mA
IDD3N	1867	mA
IDD3NA	1867	mA
IDD3P	1429	mA
IDD4R	2739	mA
IDD4RA	2829	mA
IDD4RB	2793	mA
IDD4W	2703	mA
IDD4WA	2775	mA
IDD4WB	2505	mA
IDD4WC	2703	mA
IDD4WP	3009	mA
IDD5B	4549	mA
IDD5F2	3595	mA
IDD5F4	3325	mA
IDD6N	778	mA
IDD6E	1030	mA
IDD6R	526	mA
IDD6A	1030	mA
IDD7	4485	mA
IDD8	454	mA

IPP		unit
Symbol	2666	
IPP0	157	mA
IPP1	175	mA
IPP2N	115	mA
IPP2P	115	mA
IPP3N	576	mA
IPP3P	576	mA
IPP4R	400	mA
IPP4W	400	mA
IPP5B	1192	mA
IPP5F2	796	mA
IPP5F4	688	mA
IPP6N	180	mA
IPP6E	252	mA
IPP6R	148	mA
IPP6A	252	mA
IPP7	526	mA
IPP8	115	mA

MODULE DIMENSIONS



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