

Memory Module Specifications

KSM26RD4/32HAI

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

CL19 Registered w/Parity 288-Pin DIMM

DESCRIPTION

Kingston's KSM26RD4/32HAI 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=2.25V 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)	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 Table (page 2)

Module Assembly

DRAM: HYNIX (A-DIE)
RCD: IDT

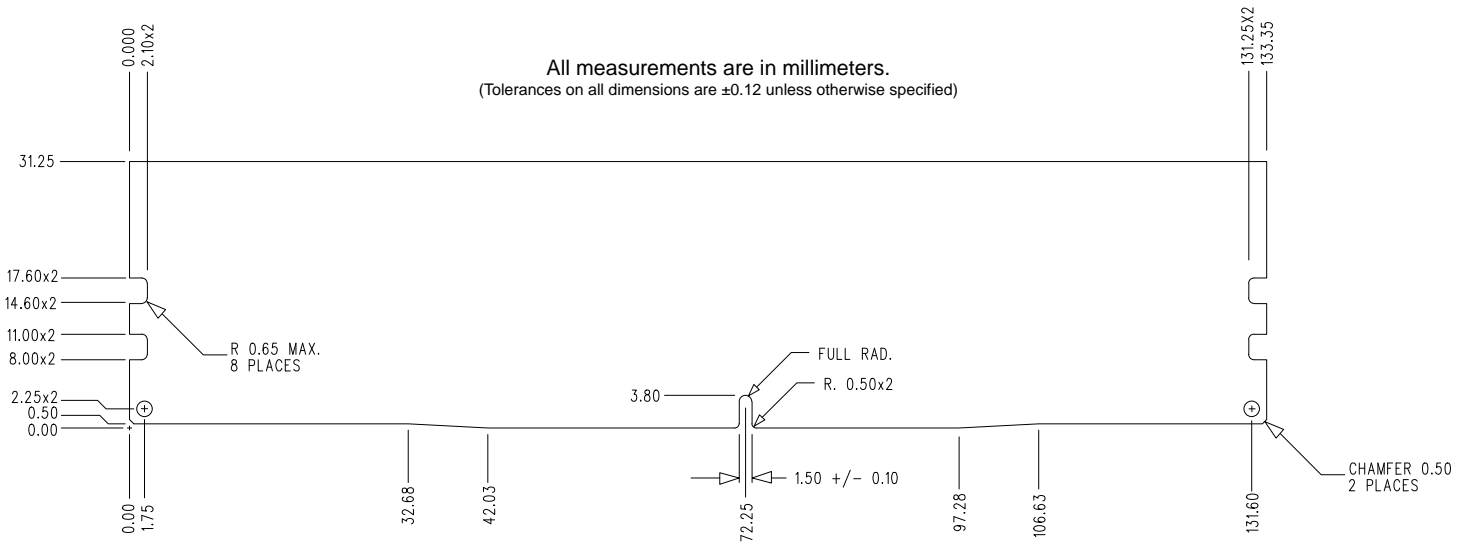
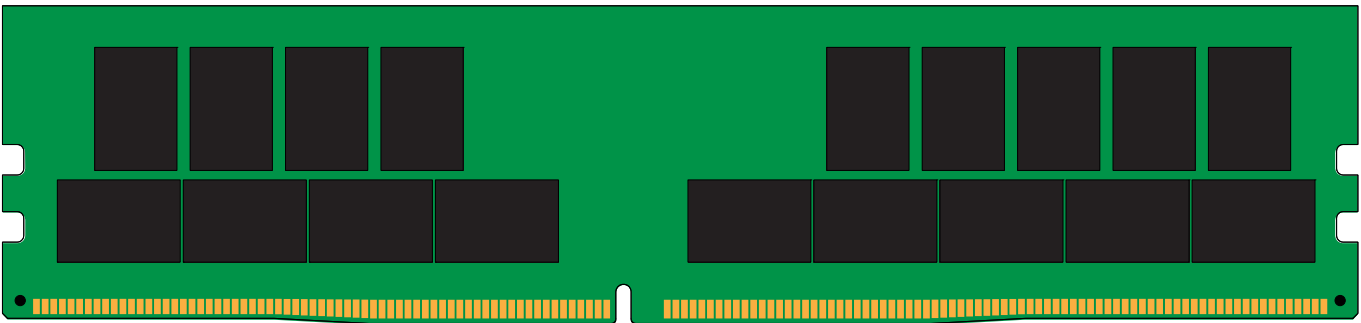
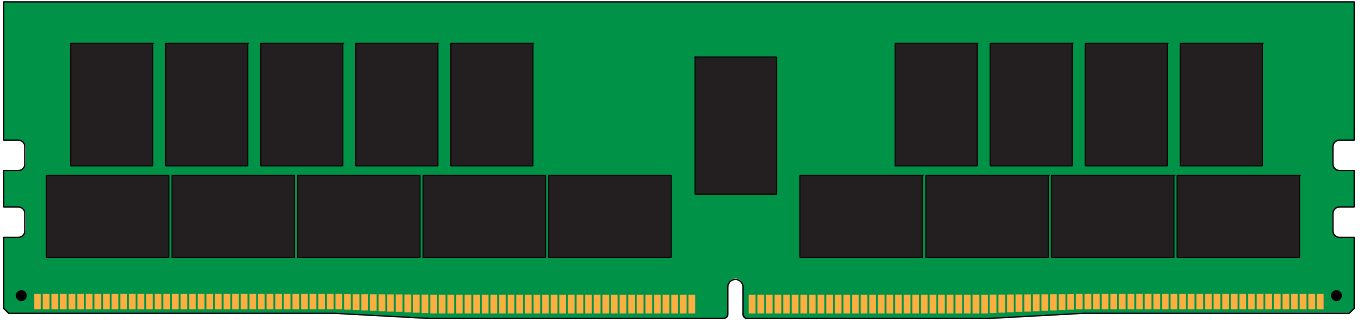
Continued >>

IDD Specifications

IDD		unit
Symbol	2666	
IDD0	1741	mA
IDD0A	1741	mA
IDD1	1947	mA
IDD1A	1983	mA
IDD2N	1543	mA
IDD2NA	1543	mA
IDD2NT	1759	mA
IDD2NL	1183	mA
IDD2NG	1543	mA
IDD2ND	1543	mA
IDD2NP	1543	mA
IDD2P	997	mA
IDD2Q	1363	mA
IDD3N	2191	mA
IDD3NA	2191	mA
IDD3P	1681	mA
IDD4R	3261	mA
IDD4RA	3477	mA
IDD4RB	3441	mA
IDD4W	3153	mA
IDD4WA	3207	mA
IDD4WB	3045	mA
IDD4WC	3009	mA
IDD4WP	3423	mA
IDD5B	4567	mA
IDD5F2	3613	mA
IDD5F4	3343	mA
IDD6N	814	mA
IDD6E	1030	mA
IDD6R	526	mA
IDD6A	1030	mA
IDD7	5457	mA
IDD8	454	mA

IPP		unit
Symbol	2666	
IPP0	166	mA
IPP1	184	mA
IPP2N	115	mA
IPP2P	115	mA
IPP3N	540	mA
IPP3P	540	mA
IPP4R	328	mA
IPP4W	328	mA
IPP5B	1228	mA
IPP5F2	904	mA
IPP5F4	778	mA
IPP6N	144	mA
IPP6E	252	mA
IPP6R	148	mA
IPP6A	252	mA
IPP7	580	mA
IPP8	115	mA

MODULE DIMENSIONS



The product images shown are for illustration purposes only and may not be an exact representation of the product.
Kingston reserves the right to change any information at anytime without notice.