

# Memory Module Specifications

## KSM26RD8/32HCR

32GB 2Rx8 4G x 72-Bit PC4-2666

CL19 Registered w/Parity 288-Pin DIMM

### DESCRIPTION

Kingston's KSM26RD8/32HCR is a 4G x 72-bit (32GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM) registered w/ parity, 2Rx8, ECC, memory module, based on eighteen 2G x 8-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 Specifications (page 2)

### Module Assembly

<b>DRAM:</b> HYNIX (C-DIE)
<b>RCD:</b> Rambus

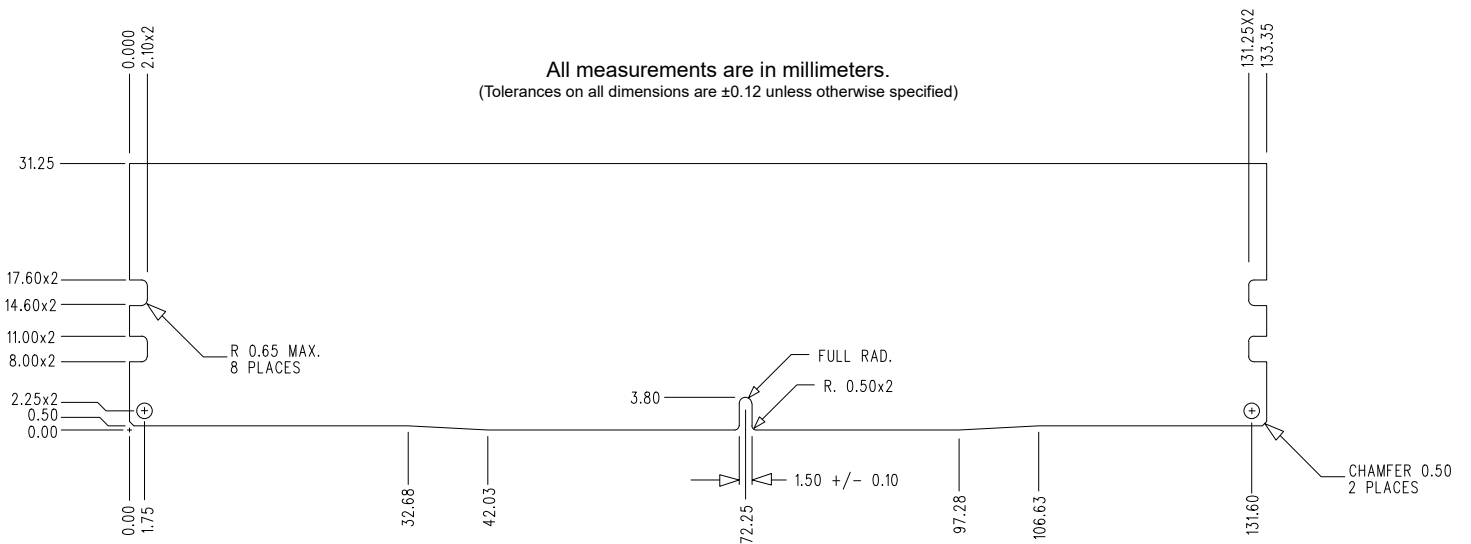
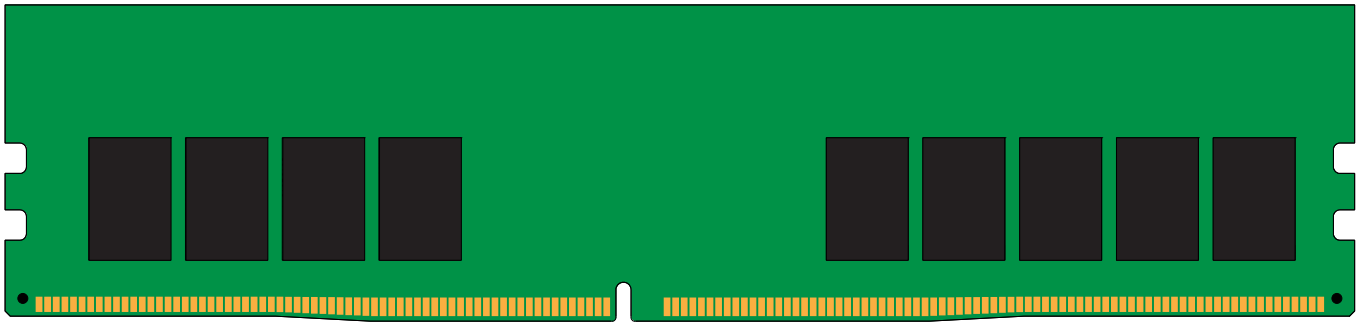
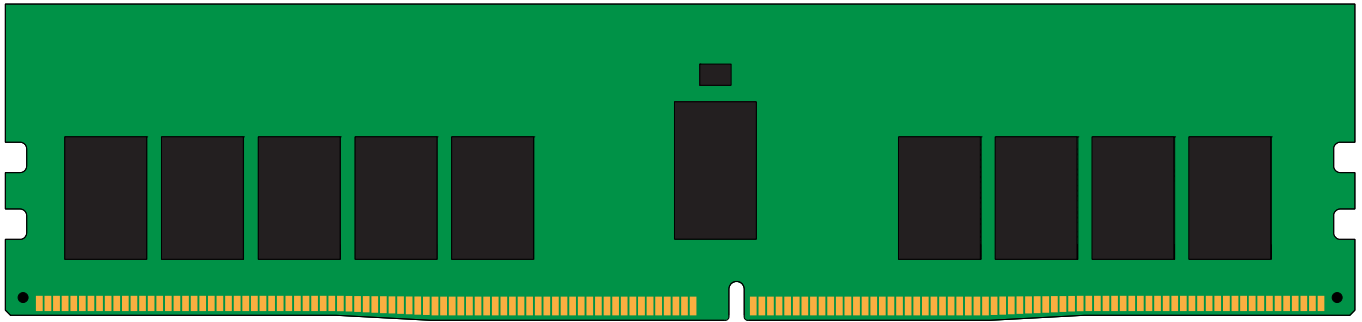
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## IDD Specifications

IDD		unit
Symbol	2666	
IDD0	1081	mA
IDD0A	1081	mA
IDD1	1184	mA
IDD1A	1214	mA
IDD2N	992	mA
IDD2NA	992	mA
IDD2NT	1059	mA
IDD2NL	837	mA
IDD2NG	991	mA
IDD2ND	947	mA
IDD2NP	1003	mA
IDD2P	660	mA
IDD2Q	954	mA
IDD3N	1431	mA
IDD3NA	1430	mA
IDD3P	1119	mA
IDD4R	1852	mA
IDD4RA	1866	mA
IDD4RB	1860	mA
IDD4W	1810	mA
IDD4WA	1846	mA
IDD4WB	1745	mA
IDD4WC	1802	mA
IDD4WP	1968	mA
IDD5B	5476	mA
IDD5F2	3979	mA
IDD5F4	3348	mA
IDD6N	702	mA
IDD6E	1108	mA
IDD6R	315	mA
IDD6A	1176	mA
IDD7	2063	mA
IDD8	202	mA

IPP		unit
Symbol	2666	
IPP0	29	mA
IPP1	33	mA
IPP2N	16	mA
IPP2P	16	mA
IPP3N	19	mA
IPP3P	19	mA
IPP4R	53	mA
IPP4W	53	mA
IPP5B	489	mA
IPP5F2	323	mA
IPP5F4	267	mA
IPP6N	65	mA
IPP6E	115	mA
IPP6R	28	mA
IPP6A	101	mA
IPP7	137	mA
IPP8	16	mA

## MODULE DIMENSIONS



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