

Memory Module Specifications

KSM26RS4/32HAI

32GB 1Rx4 4G x 72-Bit PC4-2666

CL19 Registered w/Parity 288-Pin DIMM

DESCRIPTION

Kingston's KSM26RS4/32HAI is a 4G x 72-bit (32GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM) registered w/ parity, 1Rx4, ECC, memory module, based on eighteen 4G 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 Specifications (page 2)

Module Assembly

DRAM: HYNIX (A-DIE)
RCD: IDT

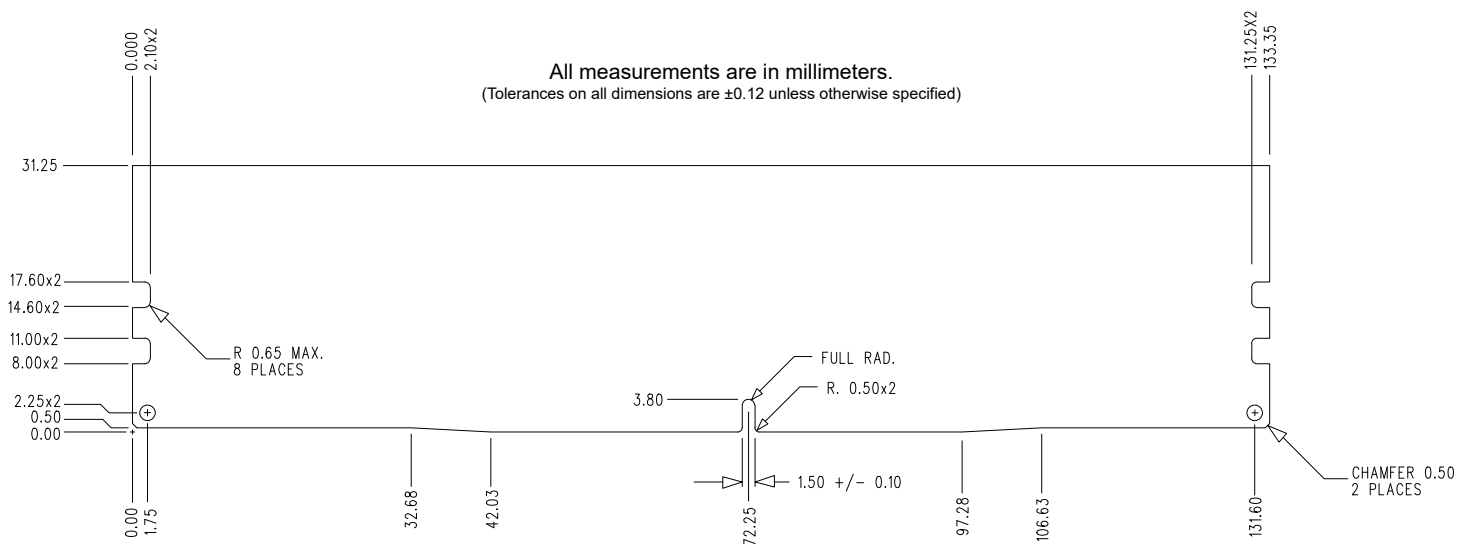
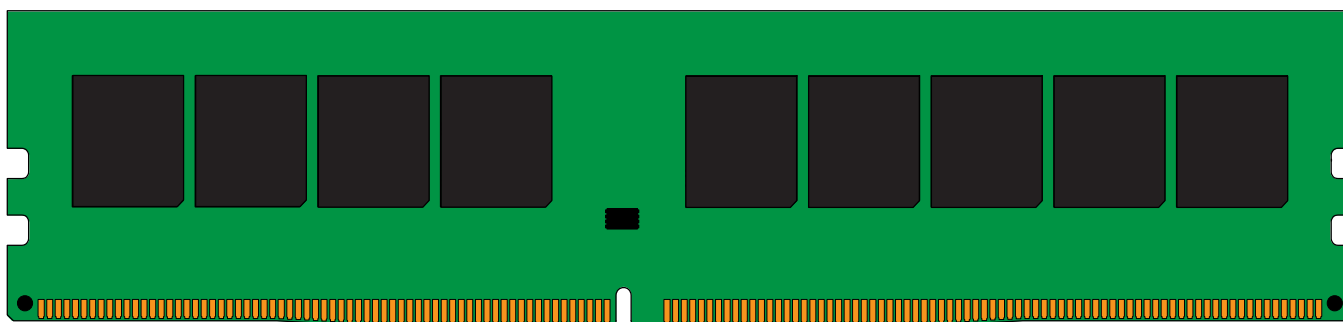
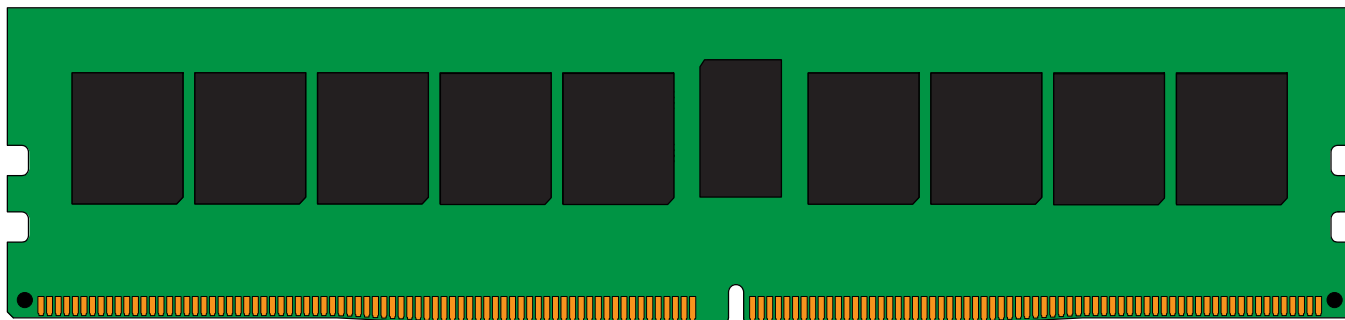
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IDD Specifications

IDD		unit
Symbol	2666	
IDD0	1205	mA
IDD0A	1206	mA
IDD1	1368	mA
IDD1A	1420	mA
IDD2N	1070	mA
IDD2NA	1071	mA
IDD2NT	1151	mA
IDD2NL	860	mA
IDD2NG	1060	mA
IDD2ND	1045	mA
IDD2NP	1088	mA
IDD2P	693	mA
IDD2Q	1018	mA
IDD3N	1305	mA
IDD3NA	1306	mA
IDD3P	946	mA
IDD4R	2336	mA
IDD4RA	2376	mA
IDD4RB	2331	mA
IDD4W	2108	mA
IDD4WA	2189	mA
IDD4WB	2008	mA
IDD4WC	2110	mA
IDD4WP	2649	mA
IDD5B	7507	mA
IDD5F2	5350	mA
IDD5F4	4583	mA
IDD6N	604	mA
IDD6E	894	mA
IDD6R	354	mA
IDD6A	895	mA
IDD7	3194	mA
IDD8	271	mA

IPP		unit
Symbol	2666	
IPP0	38	mA
IPP1	38	mA
IPP2N	24	mA
IPP2P	24	mA
IPP3N	31	mA
IPP3P	31	mA
IPP4R	31	mA
IPP4W	31	mA
IPP5B	1170	mA
IPP5F2	774	mA
IPP5F4	629	mA
IPP6N	75	mA
IPP6E	128	mA
IPP6R	39	mA
IPP6A	109	mA
IPP7	184	mA
IPP8	24	mA

MODULE DIMENSIONS



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