

# Memory Module Specifications

## KSM26LQ4/64HAM

64GB 4Rx4 8G x 72-Bit PC4-2666

CL19 Load Reduced w/Parity 288-Pin DIMM

### DESCRIPTION

Kingston's KSM26LQ4/64HAM is a 8G x 72-bit (64GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM) load reduced w/ parity, 4Rx4, ECC, memory module, based on thirty-six 4G x 4-bit DDP 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)	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

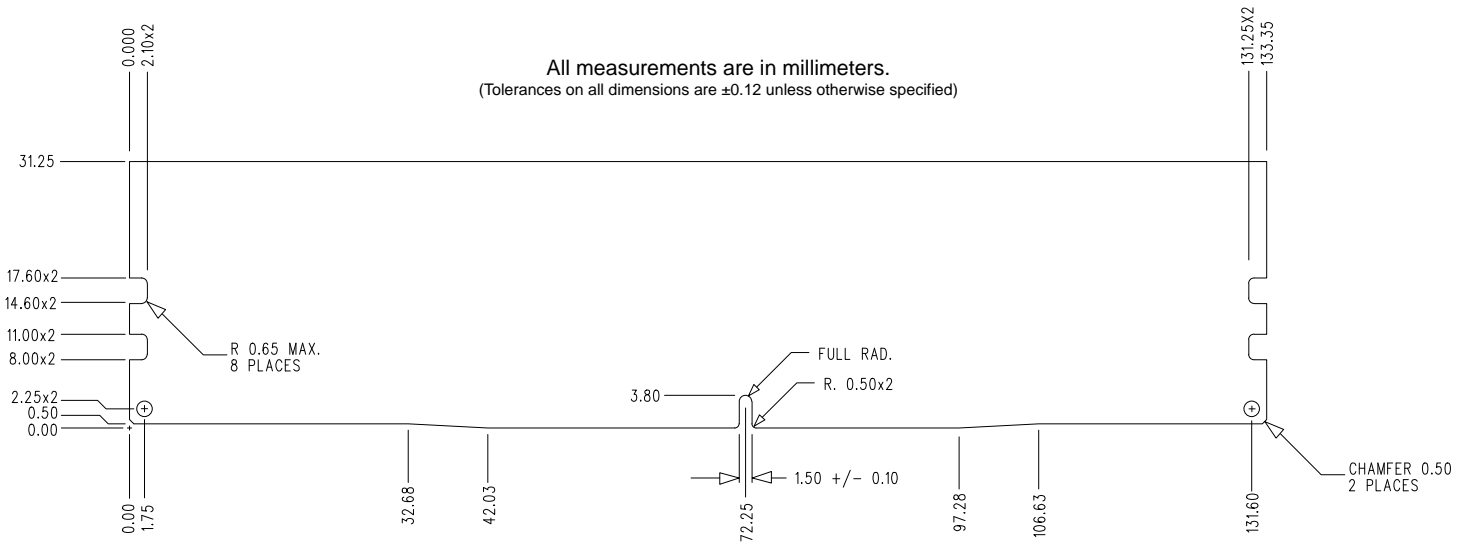
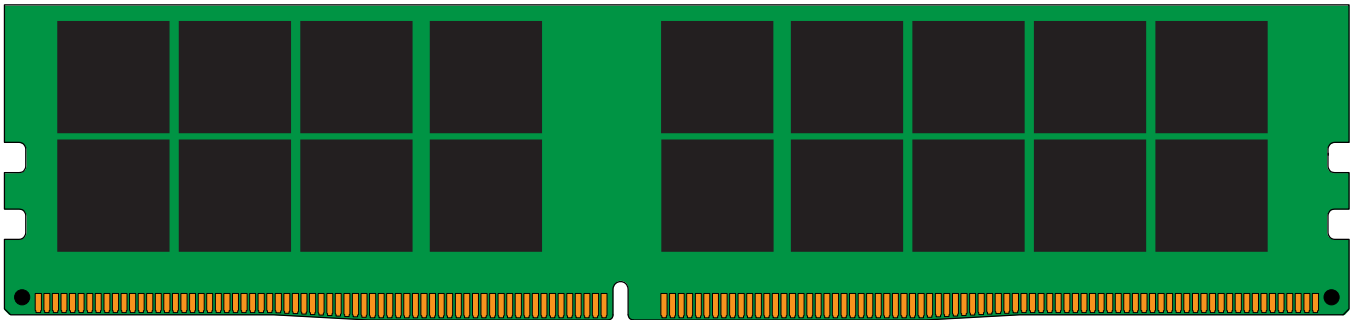
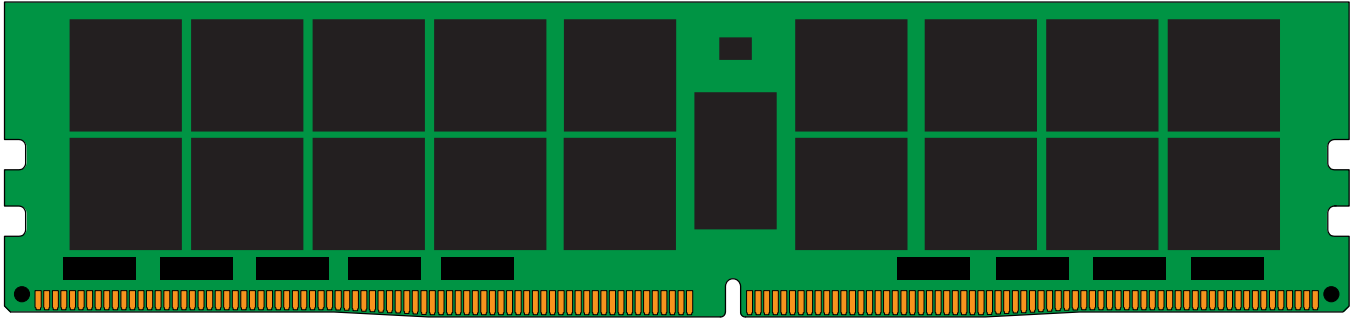
<b>DRAM:</b> HYNIX (A-DIE)
<b>RCD:</b> Montage

## IDD Specifications

IDD		unit
Symbol	2666	
IDD0	4499	mA
IDD0A	4499	mA
IDD1	4561	mA
IDD1A	4597	mA
IDD2N	4301	mA
IDD2NA	4301	mA
IDD2NT	4733	mA
IDD2NL	3581	mA
IDD2NG	4301	mA
IDD2ND	4301	mA
IDD2NP	4301	mA
IDD2P	3382	mA
IDD2Q	3941	mA
IDD3N	5597	mA
IDD3NA	5597	mA
IDD3P	4750	mA
IDD4R	5922	mA
IDD4RA	6138	mA
IDD4RB	6102	mA
IDD4W	5887	mA
IDD4WA	5941	mA
IDD4WB	5779	mA
IDD4WC	5743	mA
IDD4WP	6157	mA
IDD5B	7325	mA
IDD5F2	6371	mA
IDD5F4	6101	mA
IDD6N	1896	mA
IDD6E	2328	mA
IDD6R	1320	mA
IDD6A	2328	mA
IDD7	8118	mA
IDD8	1176	mA

IPP		unit
Symbol	2666	
IPP0	281	mA
IPP1	299	mA
IPP2N	230	mA
IPP2P	230	mA
IPP3N	1080	mA
IPP3P	1080	mA
IPP4R	443	mA
IPP4W	443	mA
IPP5B	1343	mA
IPP5F2	1019	mA
IPP5F4	893	mA
IPP6N	288	mA
IPP6E	504	mA
IPP6R	295	mA
IPP6A	504	mA
IPP7	695	mA
IPP8	230	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.