

## Memory Module Specifications

### KSM26SED8/16HD

16GB 2Rx8 2G x 72-Bit PC4-2666

CL19 260-Pin ECC SODIMM

#### DESCRIPTION

Kingston's KSM26SED8/16HD is a 2G x 72-bit (16GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM) w/ parity, 2Rx8, ECC, memory module, based on eighteen 1G x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR4-2666 timing of 19-19-19 at 1.2V. Each 260-pin SODIMM 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 = 2.20V to 3.60V
- 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
- RoHS Compliant and Halogen-Free

#### 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 Specifications (page 2)

#### Module Assembly

DRAM: HYNIX (D-DIE)
---------------------

Continued >>

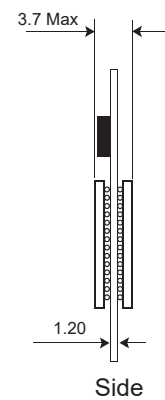
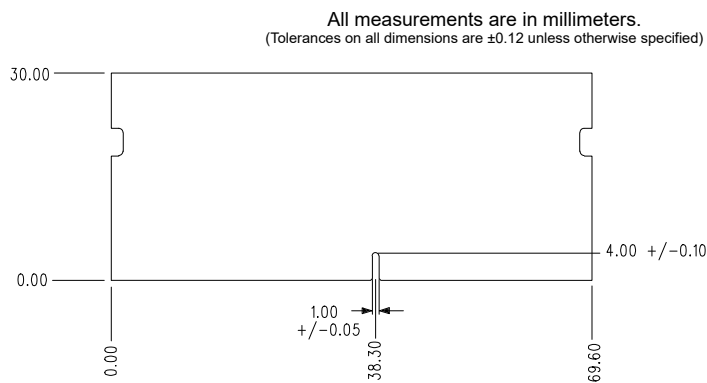
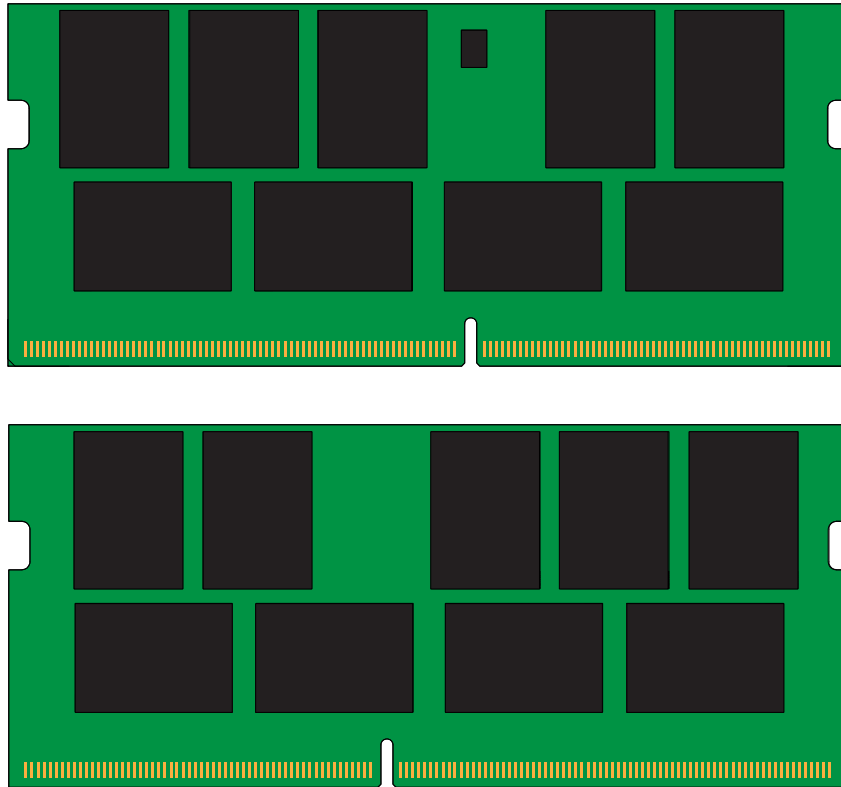
## IDD Specifications

IDD		unit
Symbol	2666	
IDD0	520	mA
IDD0A	525	mA
IDD1	583	mA
IDD1A	611	mA
IDD2N	457	mA
IDD2NA	467	mA
IDD2NT	551	mA
IDD2NL	322	mA
IDD2NG	465	mA
IDD2ND	448	mA
IDD2NP	473	mA
IDD2P	305	mA
IDD2Q	420	mA
IDD3N	491	mA
IDD3NA	491	mA
IDD3P	378	mA
IDD4R	1123	mA
IDD4RA	1152	mA
IDD4RB	1135	mA
IDD4W	1117	mA
IDD4WA	1148	mA
IDD4WB	1034	mA
IDD4WC	1083	mA
IDD4WP	1250	mA
IDD5B	1976	mA
IDD5F2	1478	mA
IDD5F4	1323	mA
IDD6N	338	mA
IDD6E	466	mA
IDD6R	218	mA
IDD6A	466	mA
IDD7	1381	mA
IDD8	176	mA

IPP		unit
Symbol	2666	
IPP0	76	mA
IPP1	84	mA
IPP2N	61	mA
IPP2P	56	mA
IPP3N	243	mA
IPP3P	241	mA
IPP4R	180	mA
IPP4W	179	mA
IPP5B	503	mA
IPP5F2	338	mA
IPP5F4	295	mA
IPP6N	93	mA
IPP6E	125	mA
IPP6R	74	mA
IPP6A	125	mA
IPP7	175	mA
IPP8	59	mA

continued

## 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.