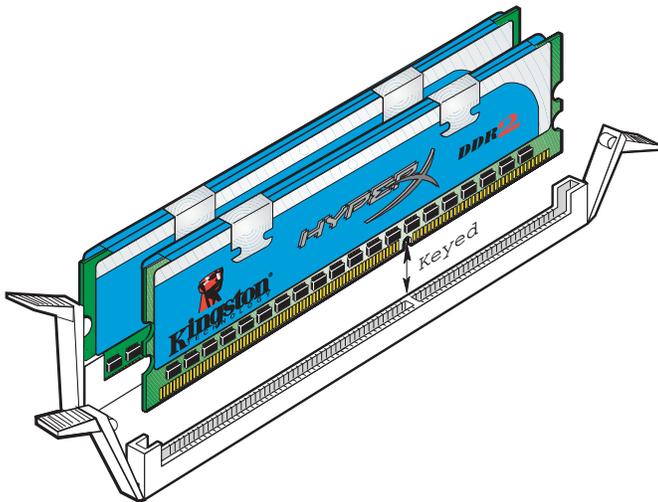


# Memory Module Specifications

## KHX8500D2K4/4G

4GB (1GB 128M x 64-Bit x 4 pcs.)

PC2-8500 CL5 240-Pin DIMM Kit



### DESCRIPTION

Kingston's KHX8500D2K4/4G is a kit of four 128M x 64-bit 1GB (1024MB) DDR2-1066 CL5 SDRAM (Synchronous DRAM) memory modules, based on sixteen 64M x 8-bit DDR2 FBGA components per module. Total kit capacity is 4GB (4096MB). Each module kit has been tested to run at DDR2-1066MHz at a latency timing of 5-5-5-15 at 2.2V. The SPD is programmed to JEDEC standard latency 800Mhz timing of 5-5-5-18 at 1.8V. Each 240-pin DIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

### SPECIFICATIONS

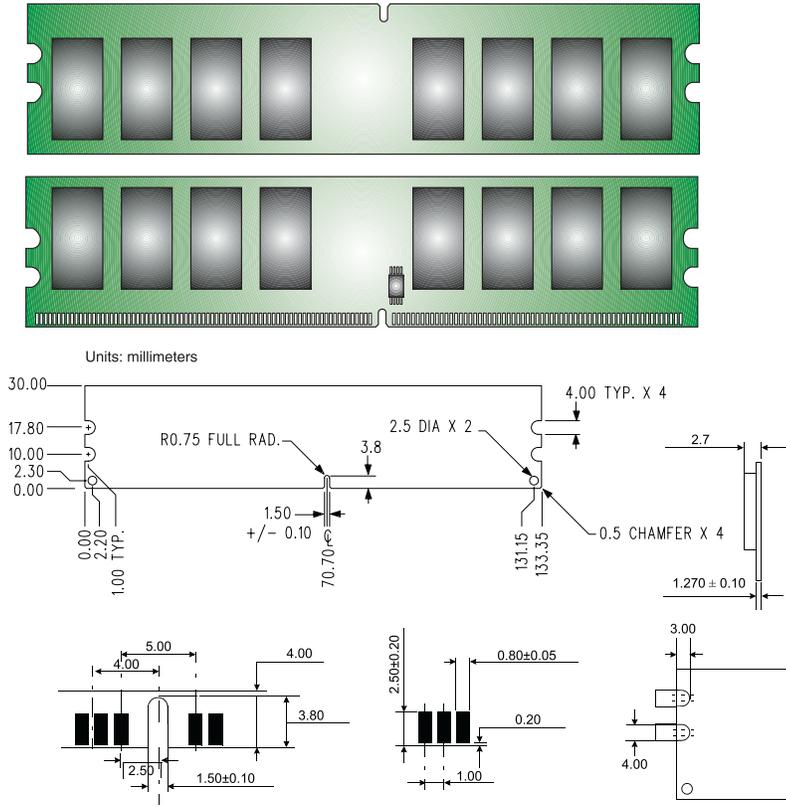
Clock Cycle Time (tCK) CL=5	2.5ns (min.) / 8ns (max.)
Row Cycle Time (tRC)	51.5ns (min.)
Refresh to Active/Refresh Command Time (tRFC)	105ns
Row Active Time (tRAS)	39ns (min.) / 70,000ns (max.)
Single Power Supply of	+1.8V (+/- .1V)
Power	2.025 W (operating per module)
UL Rating	94 V - 0
Operating Temperature	0° C to 55° C
Storage Temperature	-55° C to +125° C

### FEATURES

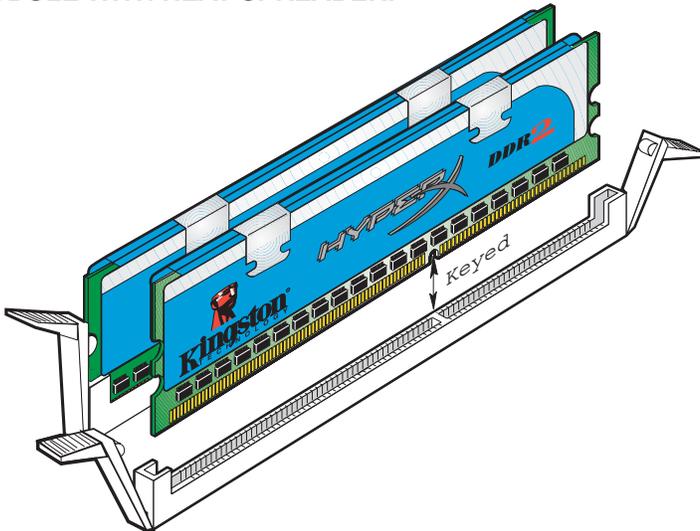
- Power supply : Vdd: 1.8V ± 0.1V, Vddq: 1.8V ± 0.1V
- Double-data-rate architecture; two data transfers per clock cycle
- Bidirectional data strobe(DQS)
- Differential clock inputs(CK and CK)
- DLL aligns DQ and DQS transition with CK transition
- Programmable Read latency 5 (clock)
- Burst Length: 4, 8 (Interleave/nibble sequential)
- Programmable Burst type (sequential & interleave)
- Timing Reference: 5-5-5-18 at +1.8V / 5-5-5-15 at +2.2V
- Edge aligned data output, center aligned data input
- Auto & Self refresh, 7.8us refresh interval (8K/64ms refresh)
- Serial presence detect with EEPROM
- High Performance Heat Spreader
- PCB : Height 1.180" (30.00mm), single sided component

Continued >>

**MODULE DIMENSIONS:**



**MODULE WITH HEAT SPREADER:**



FOR MORE INFORMATION, GO TO [WWW.KINGSTON.COM](http://WWW.KINGSTON.COM)

All Kingston products are tested to meet our published specifications. Some motherboards or system configurations may not operate at the published HyperX memory speeds and timing settings. Kingston does not recommend that any user attempt to run their computers faster than the published speed. Overclocking or modifying your system timing may result in damage to computer components.