

Memory Module Specification



KHX8500D2K2/1GN

1GB (512MB 64M x 64-Bit x 2 pcs.) PC2-8500 CL5 240-Pin DIMM Kit



DESCRIPTION:

Kingston's KHX8500D2K2/1GN is a kit of two 64M x 64-bit (512MB) DDR2-1066 CL5 SDRAM (Synchronous DRAM) "NVIDIA SLI-Ready" memory modules, based on eight 64M x 8-bit DDR2 FBGA components per module. Total kit capacity is 1GB (1024MB). Each module pair 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:

FEATURES:

Power supply: Vdd: $1.8V \pm 0.1V$, Vddq: $1.8V \pm 0.1V$

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

PERFORMANCE:

☑ Clock Cycle Time (tCK) CL=5

Row Cycle Time (tRC)

Refresh to Active/Refresh Command Time (tRFC)

Row Active Time (tRAS)

Single Power Supply of

2 Power

UL Rating

Operating Temperature

☑ Storage Temperature

2.5ns (min.) / 8ns (max.)

51.5ns (min.)

105ns

39ns (min.) / 70,000ns (max.)

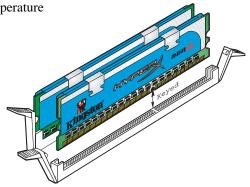
+1.8V (+/-.1V)

1.018 W (operating per module)

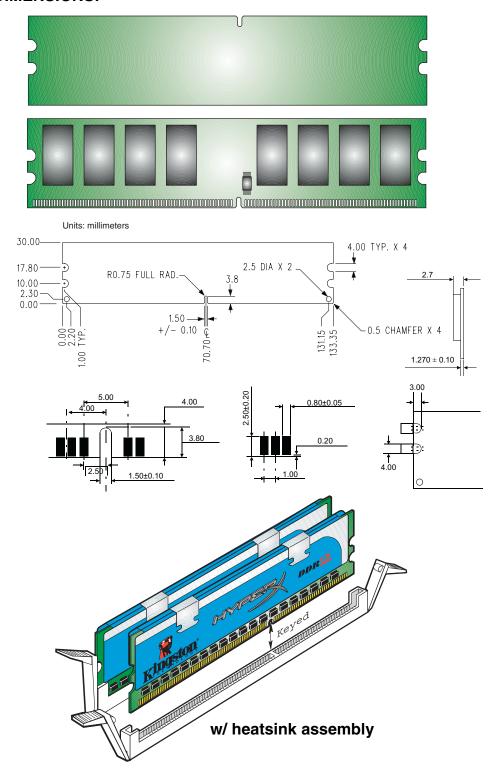
94 V - 0

0° C to 55° C

-55° C to +125° C



MODULE DIMENSIONS:



For more information, go to 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.