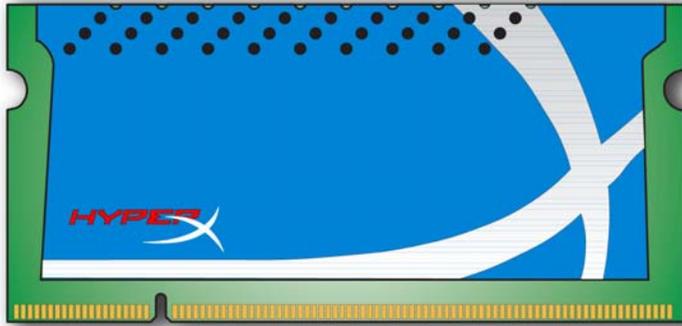


Memory Module Specifications

KHX5300S2LLK2/2G

2GB (1GB 128M x 64-Bit x 2 pcs.)
 PC2-5300 CL4 200-Pin SODIMM Kit



DESCRIPTION

Kingston's KHX5300S2LLK2/2G is a kit of two 128M x 64-bit (1GB) CL4 low latency SDRAM (Synchronous DRAM) 1Rx8 memory modules. Each module is based on eight 128M x 8-bit DDR2 FBGA components. Total kit capacity is 2GB. The SPDs are programmed to JEDEC low latency timing of 4-4-4-12 at 1.8V. Each 200-pin SODIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

SPECIFICATIONS

Clock Cycle Time (tCK)	3ns (min.) / 8ns (max.)
Row Cycle Time (tRCmin)	60ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	127.5ns (min.)
Row Active Time (tRASmin)	36ns (min.) / 70,000 (max.)
Single Power Supply of	+1.8V (+/- .1V)
Power (Operating)	TBD* (per module)
UL Rating	94 V - 0
Operating Temperature	0° C to 55° C
Storage Temperature	-55° C to +125° C

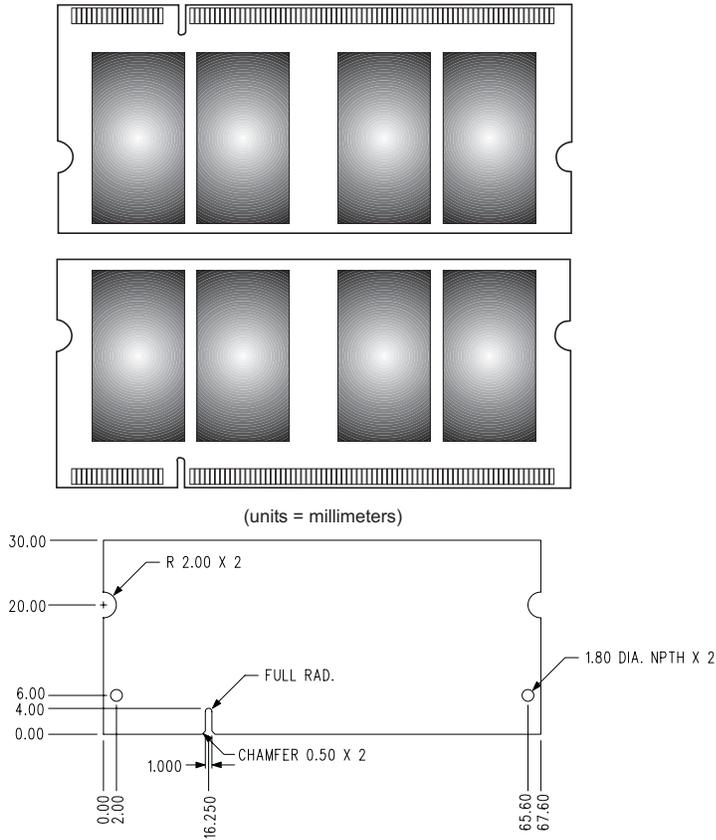
*Power will vary depending on the SDRAM used.

FEATURES

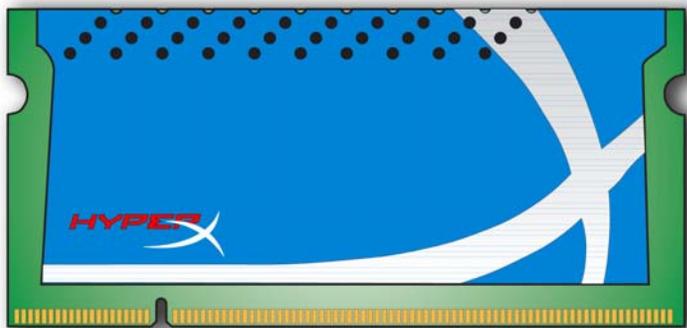
- Power supply : Vdd: 1.8V ± 0.1V, Vddq: 1.8V ± 0.1V
- Double-data-rate architecture; two data transfers per clock cycle
- Bidirectional data strobe(DQS)
- Differential clock inputs(CK and CK)
- DLL aligns DQ and DQS transition with CK transition
- Programmable Read latency 5, 4, 3 (clock)
- Burst Length: 4, 8 (Interleave/nibble sequential)
- Programmable Burst type (sequential & interleave)
- Timing Reference: 4-4-4-12 at +1.8V
- Edge aligned data output, center aligned data input
- Auto & Self refresh, 7.8us refresh interval (8K/64ms refresh)
- Serial presence detect with EEPROM
- PCB : Height 1.180" (30.00mm), double sided component

Continued >>

MODULE DIMENSIONS



MODULE WITH HEAT SPREADER



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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.