

KHX4200S2LL/2G 2GB 256M x 64-Bit PC2-4200 CL3 200-Pin SODIMM

DESCRIPTION:

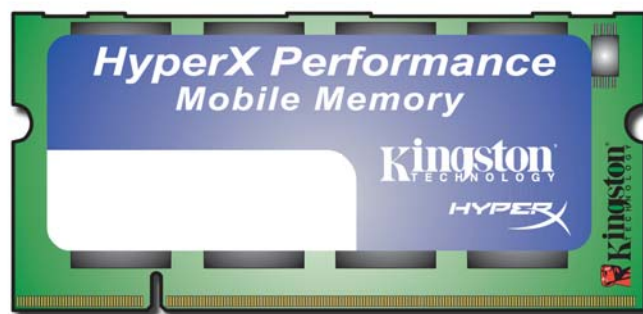
This document describes ValueRAM's 256M x 64-bit 2GB (2048MB) PC2-4200 CL3 SDRAM (Synchronous DRAM) memory module. The module is based on sixteen 128M x 8-bit DDR2 FBGA components. The SPDs is programmed to JEDEC low latency timing of 3-3-3-8 at 1.8V. This 200-pin SODIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

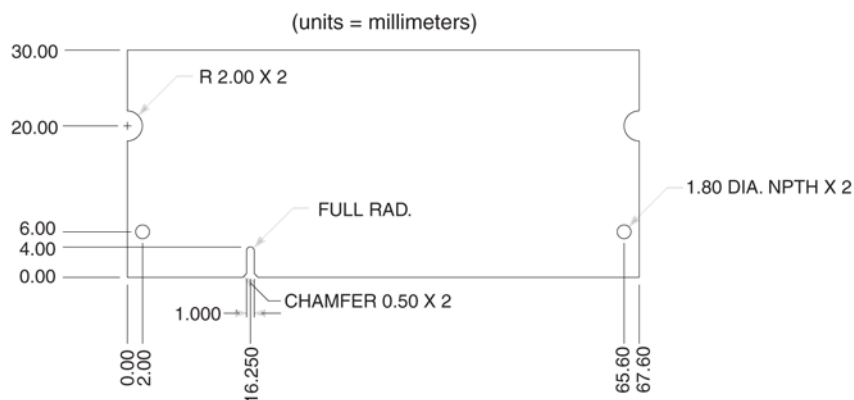
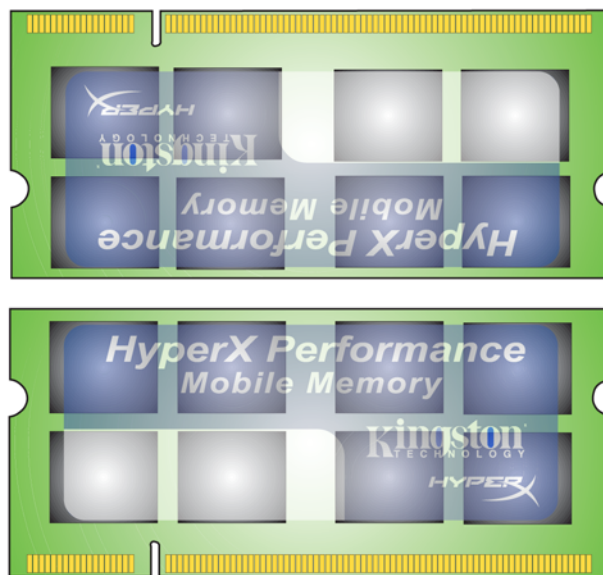
FEATURES:

- 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: 3-3-3-8 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

PERFORMANCE:

- | | |
|---|--------------------------------|
| <input checked="" type="checkbox"/> Clock Cycle Time (tCK) CL=3 | 3.7ns (min.) / 8ns (max.) |
| <input checked="" type="checkbox"/> Row Cycle Time (tRC) | 55ns (min.) |
| <input checked="" type="checkbox"/> Refresh to Active/Refresh Command Time (tRFC) | 127.5ns |
| <input checked="" type="checkbox"/> Row Active Time (tRAS) | 40ns (min.) / 70,000ns (max.) |
| <input checked="" type="checkbox"/> Single Power Supply of | +1.8V (+/- .1V) |
| <input checked="" type="checkbox"/> Power | 1.396 W (operating per module) |
| <input checked="" type="checkbox"/> UL Rating | 94 V - 0 |
| <input checked="" type="checkbox"/> Operating Temperature | 0° C to 55° C |
| <input checked="" type="checkbox"/> Storage Temperature | -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.