

## KHX6400S2ULK2/4G

**4GB (2GB 256M x 64-Bit x 2 pcs.)  
PC2-6400 CL4 200-Pin SODIMM Kit**

### DESCRIPTION:

Kingston's KHX6400S2ULK2/4G is a kit of two 256M x 64-bit 2GB (2048MB) CL4 low-power SDRAM (Synchronous DRAM) memory modules. Each module is based on sixteen 128M x 8-bit DDR2 FBGA components. Total kit capacity is 4GB (4096MB). The SPDs are programmed to JEDEC ultra 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:

### 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 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

### PERFORMANCE:

- |                                                 |                               |
|-------------------------------------------------|-------------------------------|
| ☑ Clock Cycle Time (tCK) CL=4                   | 2.5ns (min.) / 8ns (max.)     |
| ☑ Row Cycle Time (tRC)                          | 57.5ns (min.)                 |
| ☑ Refresh to Active/Refresh Command Time (tRFC) | 127.5ns                       |
| ☑ Row Active Time (tRAS)                        | 45ns (min.) / 70,000ns (max.) |
| ☑ Single Power Supply of                        | +1.8V (+/- .1V)               |
| ☑ Power                                         | TBD W (operating per module)  |
| ☑ UL Rating                                     | 94 V - 0                      |
| ☑ Operating Temperature                         | 0° C to 55° C                 |
| ☑ Storage Temperature                           | -55° C to +125° C             |



