

## **KHX3000K2/512**

**512MB (256MB 32M x 64-Bit x 2 pcs.)**  
**PC3000 CL2 184-Pin DIMM Kit**

### **DESCRIPTION:**

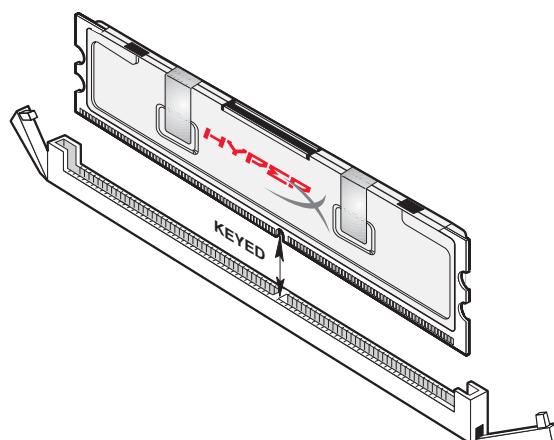
Kingston's KHX3000K2/512 is a kit of two 32M x 64-bit (256MB) DDR370 CL2 SDRAM (Synchronous DRAM) memory modules. Total kit capacity is 512MB. The components on each module include eight 32M x 8-bit (8M x 8-bit x 4 Bank / 185MHz, 5.4ns) DDR370 SDRAM in TSOP packages. Each 184-pin DIMM uses gold contact fingers and requires +2.5V. The electrical and mechanical specifications are as follows:

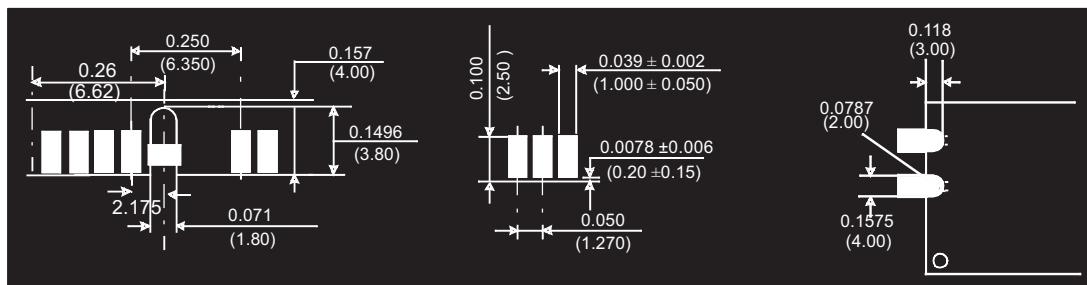
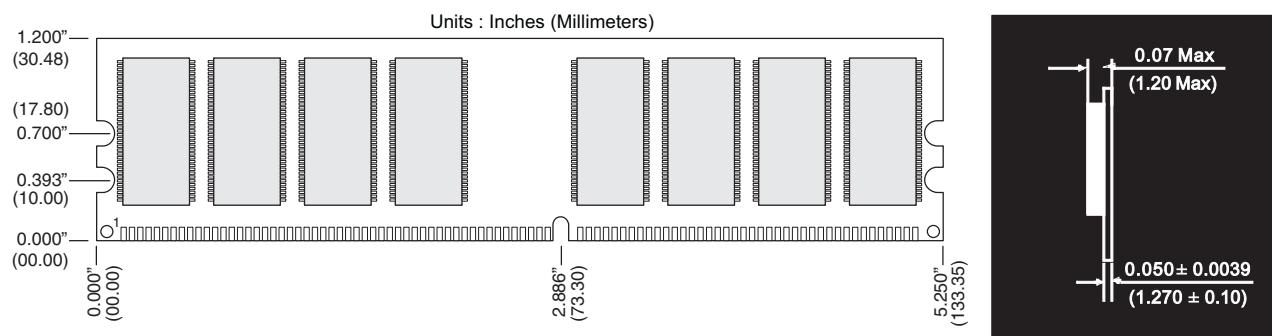
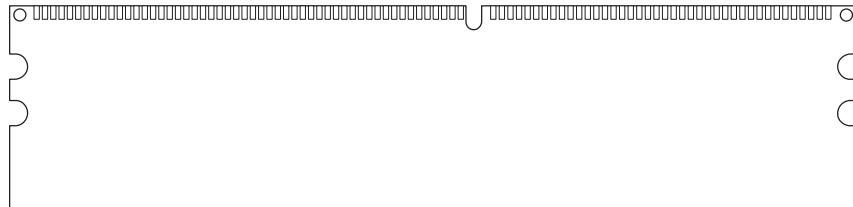
### **FEATURES:**

- Power supply : Vdd:  $2.5V \pm 0.2V$ , Vddq:  $2.5V \pm 0.2V$
- 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 2 (clock)
- Programmable Burst length (2, 4, 8)
- Programmable Burst type (sequential & interleave)
- Timing Reference: 2-2-2-6-1 at +2.6V
- 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 1.200" (30.48mm), single sided component

### **PERFORMANCE:**

<input checked="" type="checkbox"/> Clock Cycle Time (tCK)	5.4ns (min.) / 12ns (max.)
<input checked="" type="checkbox"/> Row Cycle Time (tRC)	60ns (min.)
<input checked="" type="checkbox"/> Refresh Row Cycle Time (tRFC)	72ns (min.)
<input checked="" type="checkbox"/> Row Active Time (tRAS)	42ns (min.) / 120,000ns (max.)
<input checked="" type="checkbox"/> Power (IDD0)	1.800 W (operating)
<input checked="" type="checkbox"/> UL Rating	94 V - 0
<input checked="" type="checkbox"/> Operating Temperature	0° C to 70° C
<input checked="" type="checkbox"/> Storage Temperature	-55° C to +150° C



**MODULE DIMENSIONS:**

**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.