

KHX4000LLK2/1G

1GB (512MB 64M x 64-Bit x 2 pcs.) PC4000

CL3 184-Pin DIMM Kit

DESCRIPTION:

Kingston's KHX4000LLK2/1G is a kit of two 64M x 64-bit (512MB) PC4000 SDRAM (Synchronous DRAM) CL3 memory modules. Total kit capacity is 1GB (1024MB). The components on each module include eight 64M x 8-bit (16M x 8-bit x 4 Bank) DDR400 SDRAM in TSOP packages. Each module pair has been tested to run at DDR 500MHz low latency timing of 3-3-3-8-1T at 2.7V. The SPD is programmed to JEDEC standard latency 400Mhz timing of 3-3-3-8-1T at 2.6V. Each 184-pin DIMM uses gold contact fingers and requires +2.6V. The electrical and mechanical specifications are as follows:

FEATURES:

- ✓ Power supply : Vdd: 2.6V $\pm$ 0.1V, Vddq: 2.6V $\pm$ 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 3 (clock)
- ✓ Programmable Burst length (2, 4, 8)
- ✓ Programmable Burst type (sequential & interleave)
- ✓ Timing Reference: 400MHz 3-3-3-8-1T at +2.6V / 500MHz 3-3-3-8-1T at +2.7V
- ✓ 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 1.250" (31.75mm), single sided component

PERFORMANCE:

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|---------------------------------|--------------------------------|
| ✓ Clock Cycle Time (tCK) | 5ns (min.) / 10ns (max.) |
| ✓ Row Cycle Time (tRC) | 55ns (min.) |
| ✓ Refresh Row Cycle Time (tRFC) | 70ns (min.) |
| ✓ Row Active Time (tRAS) | 40ns (min.) / 70,000ns (max.) |
| ✓ Power | 3.432 W (operating per module) |
| ✓ UL Rating | 94 V - 0 |
| ✓ Operating Temperature | 0° C to 70° C |
| ✓ Storage Temperature | -55° C to +150° C |



