

KHX8000D2K2/2G

2GB (1GB 128M x 64-Bit x 2 pcs.)

PC2-8000 CL5 240-Pin DIMM Kit

DESCRIPTION:

Kingston's KHX8000D2K2/2G is a kit of two 128M x 64-bit 1GB (1024MB) DDR2-1000 CL5 SDRAM (Synchronous DRAM) memory modules, based on sixteen 64M x 8-bit DDR2 FBGA components per module. Total kit capacity is 2GB (2048MB). Each module pair has been tested to run at DDR2-1000MHz at a latency timing of 5-5-5-15 at 2.2V. The SPD is programmed to JEDEC standard latency 800Mhz timing of 5-5-5-15 at 1.8V. Each 240-pin DIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

FEATURES:

- ✓ Power supply : Vdd: 1.8V $\pm$ 0.1V, Vddq: 1.8V $\pm$ 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 5 (clock)
- ✓ Burst Length: 4, 8 (Interleave/nibble sequential)
- ✓ Programmable Burst type (sequential & interleave)
- ✓ Timing Reference: 5-5-5-15 at +1.8V / 5-5-5-15 at +2.2V
- ✓ 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 1.180" (30.00mm), double sided component

PERFORMANCE:

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|---|--------------------------------|
| ✓ Clock Cycle Time (tCK) CL=5 | 2.5ns (min.) / 8ns (max.) |
| ✓ Row Cycle Time (tRC) | 51.5ns (min.) |
| ✓ Refresh to Active/Refresh Command Time (tRFC) | 105ns |
| ✓ Row Active Time (tRAS) | 39ns (min.) / 70,000ns (max.) |
| ✓ Single Power Supply of | +1.8V (+/- .1V) |
| ✓ Power | 3.510 W (operating per module) |
| ✓ UL Rating | 94 V - 0 |
| ✓ Operating Temperature | 0° C to 55° C |
| ✓ Storage Temperature | -55° C to +125° C |



