

Memory Module Specification

KHX13000AD3LL/1G 1GB 128M x 64-Bit PC3-13000 CL7 240-Pin DIMM

DESCRIPTION:

This document describes Kingston's 128M x 64-bit 1GB (1024MB) DDR3-1625 CL7 SDRAM (Synchronous DRAM) memory module, based on eight 128M x 8-bit DDR3 FBGA components. This module has been tested to run at DDR3-1625MHz at a low latency timing of 7-7-7-20 at 1.7 - 1.9V. The SPD is programmed to JEDEC standard latency DDR3-1333Mhz timing of 9-9-9 at 1.5V. This 240-pin DIMM uses gold contact fingers and requires +1.5V. The JEDEC standard electrical and mechanical specifications are as follows:

FEATURES:

- JEDEC standard $1.5V \pm 0.075V$ Power Supply
- **VDDQ** = $1.5V \pm 0.075V$
- 667MHz fCK for 1333Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 5,6,7,8,9,10
- Posted CAS
- Programmable Additive Latency: 0, CL 2, or CL 1 clock
- Programmable CAS Write Latency(CWL) = 9(DDR3-1333)
- 8-bit pre-fetch
- Burst Length: 8 (Interleave without any limit, sequential with starting address "000" only), 4 with tCCD = 4 which does not allow seamless read or write [either on the fly using A12 or MRS]
- Bi-directional Differential Data Strobe
- Internal(self) calibration : Internal self calibration through ZQ pin (RZQ : 240 ohm ± 1%)
- On Die Termination using ODT pin
- Average Refresh Period 7.8us at lower then TCASE 85°C, 3.9us at 85°C < TCASE . 95°C
- Asynchronous Reset
- PCB : Height 1.180" (30.00mm), single sided component

PERFORMANCE:



MODULE DIMENSIONS:

