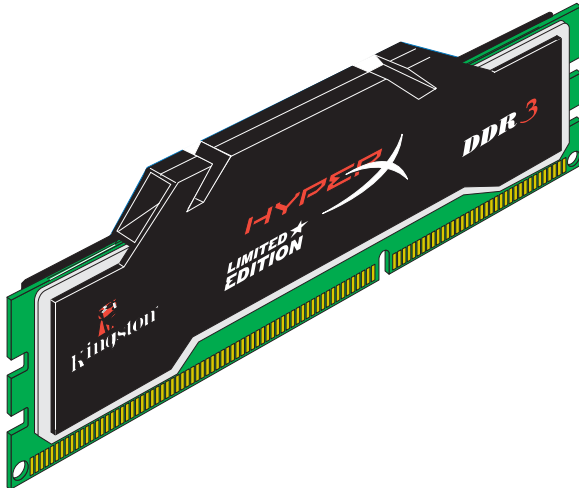




KHX1600C7D3X1K2/4GX
4GB (2GB 256M x 64-Bit x 2 pcs.)
DDR3-1600MHz CL7 240-Pin DIMM Kit



DESCRIPTION:

Kingston's KHX1600C7D3X1K2/4GX is a kit of two 256M x 64-bit (2GB) DDR3-1600 CL7 SDRAM (Synchronous DRAM) memory modules, based on sixteen 128M x 8-bit DDR3 FBGA components per module. Each module kit supports **Intel® XMP** (Extreme Memory Profiles). Total kit capacity is 4GB. Each module kit has been tested to run at DDR3-1600 at a low latency timing of 7-8-7-20 at 1.65V. The SPDs are programmed to JEDEC standard latency DDR3-1333 timing of 9-9-9 at 1.5V. Each 240-pin DIMM uses gold contact fingers and requires +1.5V. The JEDEC standard electrical and mechanical specifications are as follows:

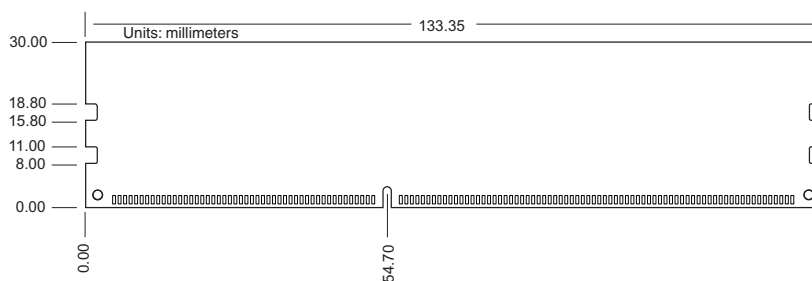
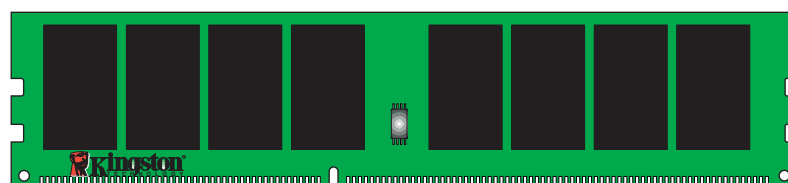
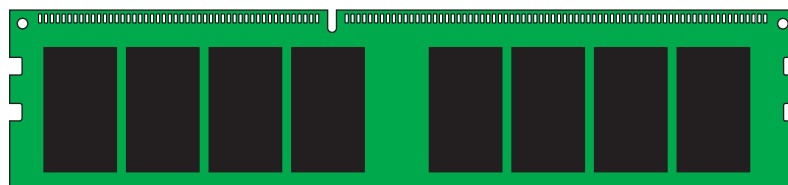
FEATURES:

- 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) = 7(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 \pm 1%)
- On Die Termination using ODT pin
- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE \leq 95°C
- Asynchronous Reset
- PCB : Height 1.494" (37.95mm) w/ heatsink, double sided component
- RoHS Compliant

PERFORMANCE:

- CL(IDD): **9 cycles**
- Row Cycle Time (tRCmin): **49.5ns (min.)**
- Refresh to Active/Refresh Command Time (tRFCmin): **110ns**
- Row Active Time (tRASmin): **36ns (min.)**
- Power: **1.800 W** (operating per module)
- UL Rating: **94 V - 0**
- Operating Temperature: **0° C to 85° C**
- Storage Temperature: **-55° C to +100° C**

MODULE DIMENSIONS:



MODULE WITH HEAT SPREADER:

