



## KHX12800D3LLK3/6GX

### 6GB (2GB 256M x 64-Bit x 3 pcs.) PC3-12800

### Triple-Channel CL8 240-Pin DIMM Kit

#### DESCRIPTION:

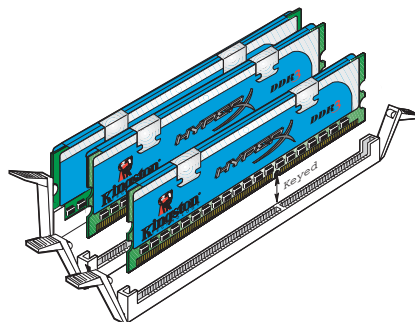
Kingston's KHX12800D3LLK3/6GX is a triple-channel kit of three 256M x 64-bit 2GB (2048MB) DDR3-1600 CL8 SDRAM (Synchronous DRAM) memory modules, with each module based on sixteen 128M x 8-bit DDR3 FBGA components. Each module kit supports **Intel® XMP** (Extreme Memory Profiles). Each module has been tested to run at DDR3-1600MHz at a low latency timing of 8-8-8 at 1.65V. The SPDs are programmed to JEDEC standard latency DDR3-1333Mhz 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:

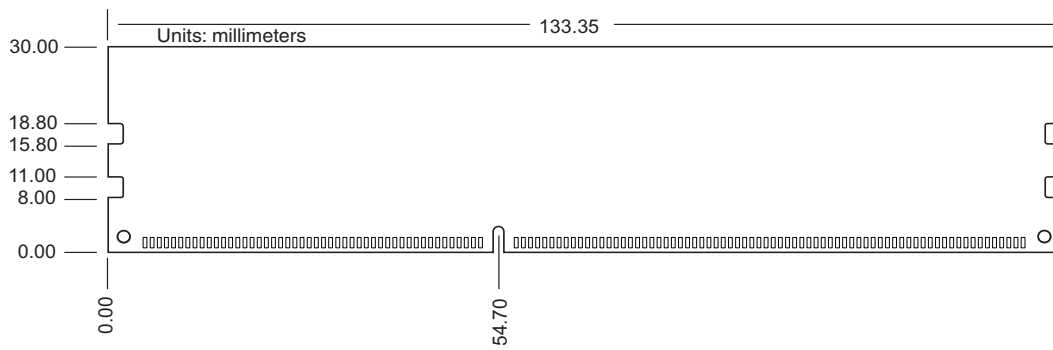
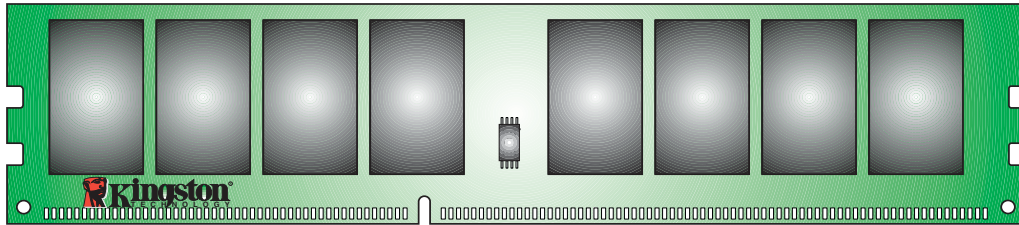
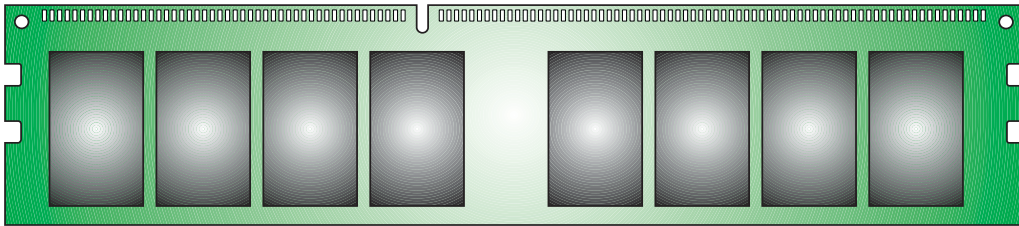
#### FEATURES:

- ✓ JEDEC standard 1.5V ± 0.075V Power Supply
- ✓ VDDQ = 1.5V ± 0.075V
- ✓ 667MHz fCK for 1333Mb/sec/pin
- ✓ 8 independent internal bank
- ✓ Programmable CAS Latency: 6,7,8,9
- ✓ 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), double sided component

#### 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  | 2.160 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:**

w/ heatsink assembly

