HX324C11SRK2/16

16GB (8GB 1G x 64-Bit x 2 pcs.)
DDR3-2400 CL11 240-Pin DIMM

SPECIFICATIONS

CL(IDD)	11 cycles
Row Cycle Time (tRCmin)	48.125ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	260ns(min.)
Row Active Time (tRASmin)	35ns(min.)
Maximum Operating Power	TBD W*
UL Rating	94 V - 0
Operating Temperature	0° C to +85° C
Storage Temperature	-55° C to +100° C

*Power will vary depending on the SDRAM used.

DESCRIPTION

HyperX HX324C11SRK2/16 is a kit of two 1G x 64-bit (8GB) DDR3-2400 CL11 SDRAM (Synchronous DRAM) 2Rx8, memory module, based on sixteen 512M x 8-bit FBGA components per module. Each module kit supports Intel® XMP (Extreme Memory Profiles).   Total kit capacity is 16GB. Each module has been tested to run at DDR3-2400 at a low latency timing of 11-13-14 at 1.65V. The SPDs are programmed to JEDEC standard latency DDR3-1600 timing of 11-11-11 at 1.5V. Each 240-pin DIMM uses gold contact fingers. The JEDEC standard electrical and mechanical specifications are as follows:

XMP TIMING PARAMETERS

- JEDEC: DDR3-1600 CL11-11-11 @1.5V
- XMP Profile #1: DDR3-2400 CL11-13-14 @1.65V
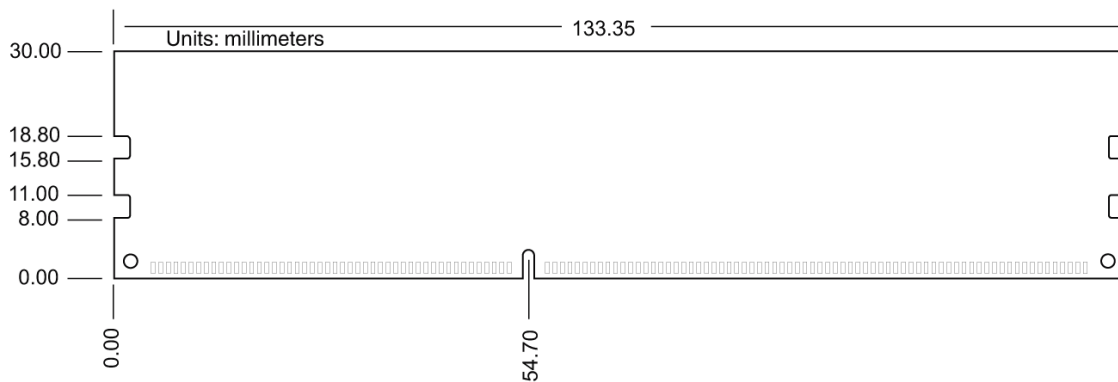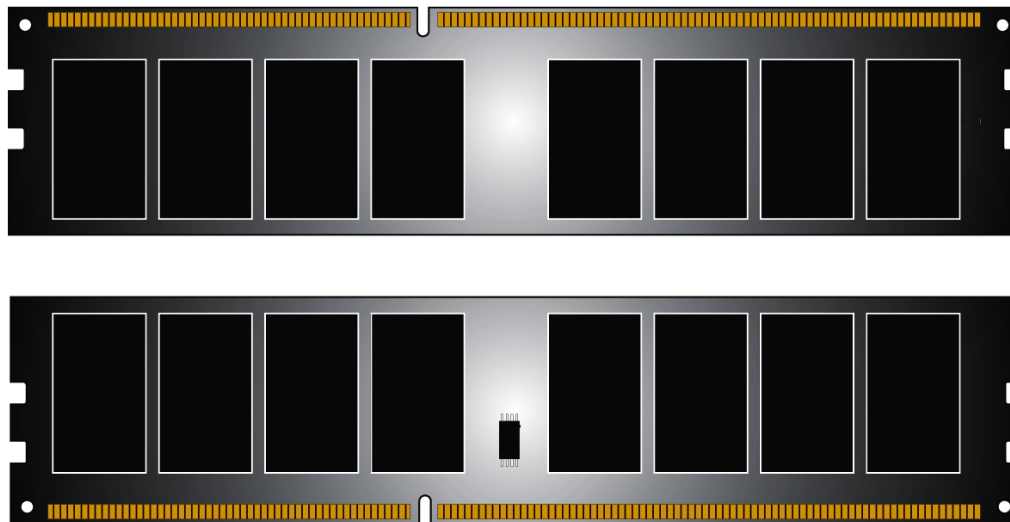- XMP Profile #2: DDR3-2133 CL11-13-13 @1.6V

FEATURES

- JEDEC standard 1.5V (1.425V ~ 1.575V) Power Supply

- VDDQ = 1.5V (1.425V ~ 1.575V)

- 800MHz fCK for 1600Mb/sec/pin

- 8 independent internal banks

- Programmable CAS latency: 11, 10, 9, 8, 7, 6

- Programmable Additive Latency: 0, CL - 2, or CL - 1 clock

- 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 than TCASE 85°C, 3.9us at 85°C < TCASE < 95°C°

- Asynchronous Reset

- Height 1.311" (33.30mm), w/heatsink, double sided component

MODULE WITH HEAT SPREADER

7.9 mm

133.35 mm

33.3 mm

HyperX® SAVAGE

MODULE DIMENSIONS

Units: millimeters   133.35

30.00

18.80
15.80

11.00
8.00

0.00

0.00

54.70
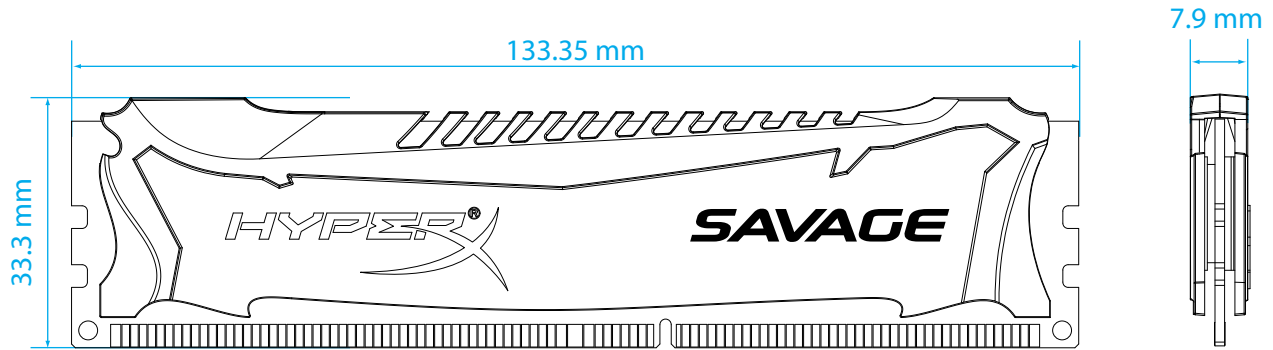
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