Memory Module Specifications



HX318C9T2K4/16

16GB (4GB 512M x 64-Bit x 4 pcs.) DDR3-1866 CL9 240-Pin DIMM Kit



DESCRIPTION

HyperX HX318C9T2K4/16 is a kit of four 512M x 64-bit (4GB) DDR3-1866 CL9 SDRAM (Synchronous DRAM), 1Rx8 memory modules, based on eight 512M x 8-bit FBGA components per module. Each module kit supports Intel® XMP (Extreme Memory Profiles). Total kit capacity is 16GB. Each module kit has been tested to run at DDR3-1866 at a low latency timing of 9-10-11 at 1.5V. 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: DDR3-1866 CL9-10-11 @1.5V
- XMP Profile #2: DDR3-1600 CL9-9-9 @1.5V

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* (per module)
UL Rating	94 V - 0
Operating Temperature	0° C to 85° C
Storage Temperature	-55° C to +100° C
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^{*}Power will vary depending on the SDRAM used.

FEATURES

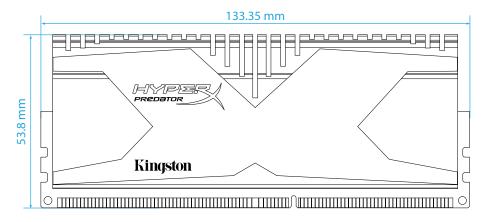
- JEDEC standard 1.5V (1.425V ~ 1.575V) Power Supply
- VDDQ = 1.5V (1.425V ~ 1.575V)
- 800MHz fCK for 1600Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 11, 10, 9, 8, 7, 6
- Programmable Additive Latency: 0, CL 2, or CL 1 clock
- 8-bit pre-fetch
- Burst Length: 8 (Interleave without 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 2.118" (53.80mm) w/heatsink, single sided component

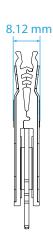
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Page 1

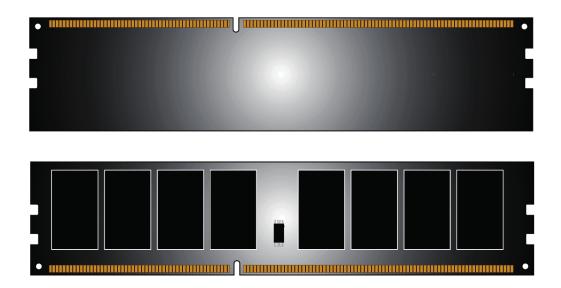
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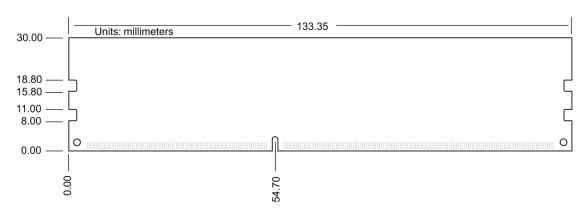
MODULE WITH HEAT SPREADER





MODULE DIMENSIONS





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