

## HX433C16PB3K4/32

32GB (8GB 1G x 64-Bit x 4 pcs.)  
 DDR4-3333 CL16 288-Pin DIMM



## SPECIFICATIONS

CL(IDD)	17 cycles
Row Cycle Time (tRCmin)	45.75ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns(min.)
Row Active Time (tRASmin)	32ns(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 HX433C16PB3K4/32 is a kit of four 1G x 64-bit (8GB) DDR4-3333 CL16 SDRAM (Synchronous DRAM) 1Rx8, memory module, based on eight 1G x 8-bit FBGA components per module. Each module kit supports Intel® Extreme Memory Profiles (Intel® XMP) 2.0. Total kit capacity is 32GB. Each module has been tested to run at DDR4-3333 at a low latency timing of 16-18-18 at 1.35V. The SPDs are programmed to JEDEC standard latency DDR4-2400 timing of 17-17-17 at 1.2V. Each 288-pin DIMM uses gold contact fingers. The JEDEC standard electrical and mechanical specifications are as follows:

## FEATURES

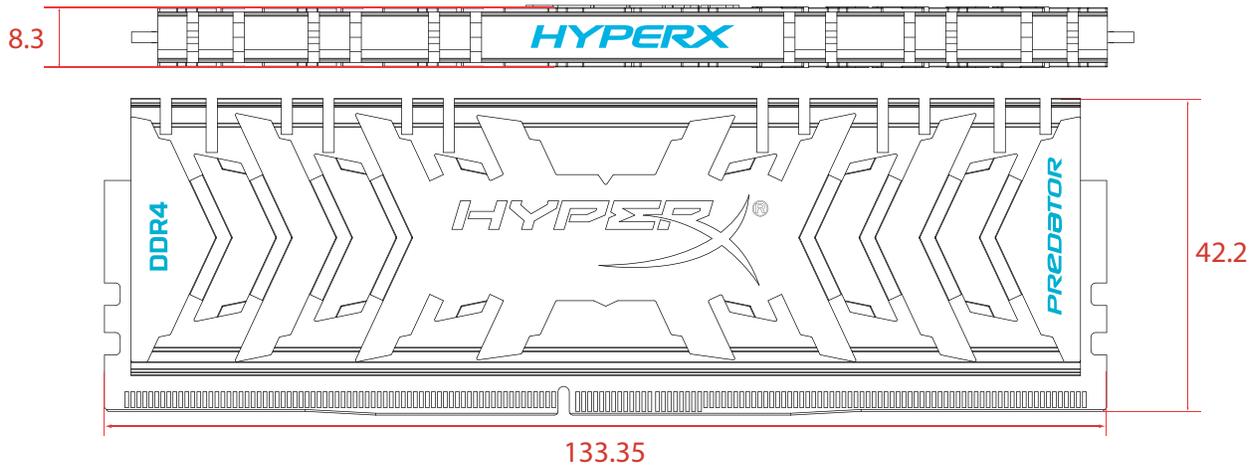
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP - 2.5V Typical
- VDDSPD = 2.25V to 3.6V
- On-Die termination (ODT)
- 16 internal banks; 4 groups of 4 banks each
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Height 1.661" (42.20mm)

## XMP TIMING PARAMETERS

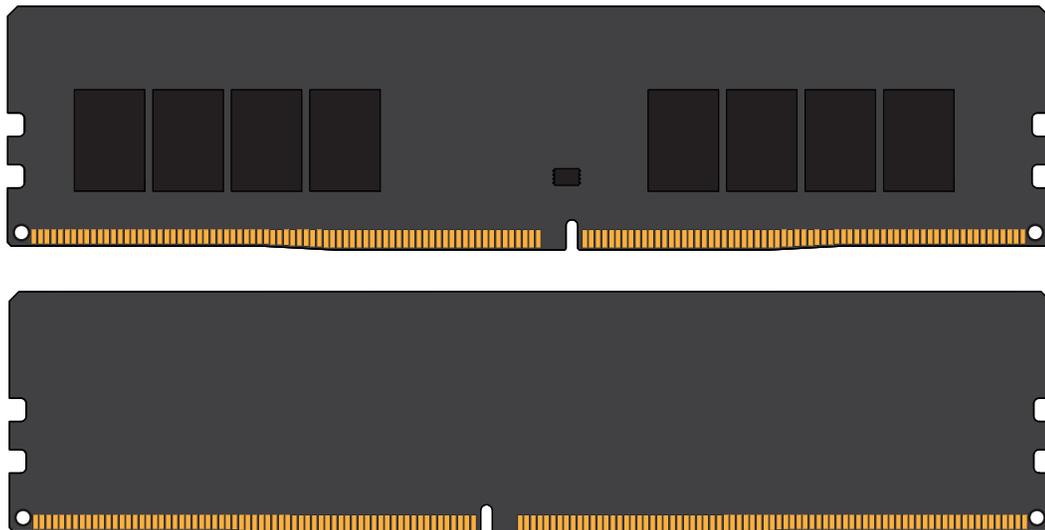
- JEDEC: DDR4-2400 CL17-17-17 @1.2V
- XMP Profile #1: DDR4-3333 CL16-18-18 @1.35V
- XMP Profile #2: DDR4-3000 CL15-17-17 @1.35V

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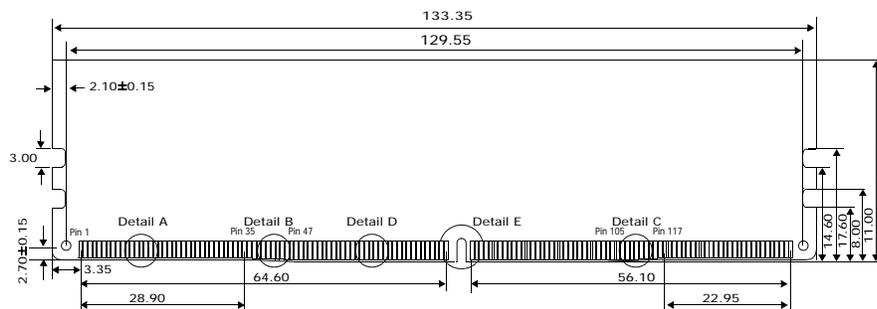
## MODULE WITH HEAT SPREADER



## MODULE DIMENSIONS



All measurements are in millimeters.  
(Tolerances on all dimensions are  $\pm 0.12$  unless otherwise specified)



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FOR MORE INFORMATION, GO TO [WWW.KINGSTON.COM/HYPERX](http://WWW.KINGSTON.COM/HYPERX)

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