




## HyperX HX433C16PB3/8 8GB 1G x 64-Bit DDR4-3333 CL16 288-Pin DIMM Memory Module User Guide

[Home](#) » [HYPERX](#) » HyperX HX433C16PB3/8 8GB 1G x 64-Bit DDR4-3333 CL16 288-Pin DIMM Memory Module User Guide 



HX433C16PB3/8 8GB 1G x 64-Bit  
DDR4-3333 CL16 288-Pin DIMM Memory Module  
User Guide



Memory Module Specifications  
HX433C16PB3/8  
8GB 1G x 64-Bit  
DDR4-3333 CL16 288-Pin DIMM

## Contents

### 1 DESCRIPTION

### 2 XMP TIMING PARAMETERS

### 3 SPECIFICATIONS

### 4 FEATURES

### 5 MODULE WITH HEAT SPREADER

### 6 MODULE DIMENSIONS

### 7 Documents / Resources

#### 7.1 References

### 8 Related Posts

## DESCRIPTION

HyperX HX433C16PB3/8 is a 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. 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:

## 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

## 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°Cto +85°C     |
| Storage Temperature                              | -55°C to +100°C |

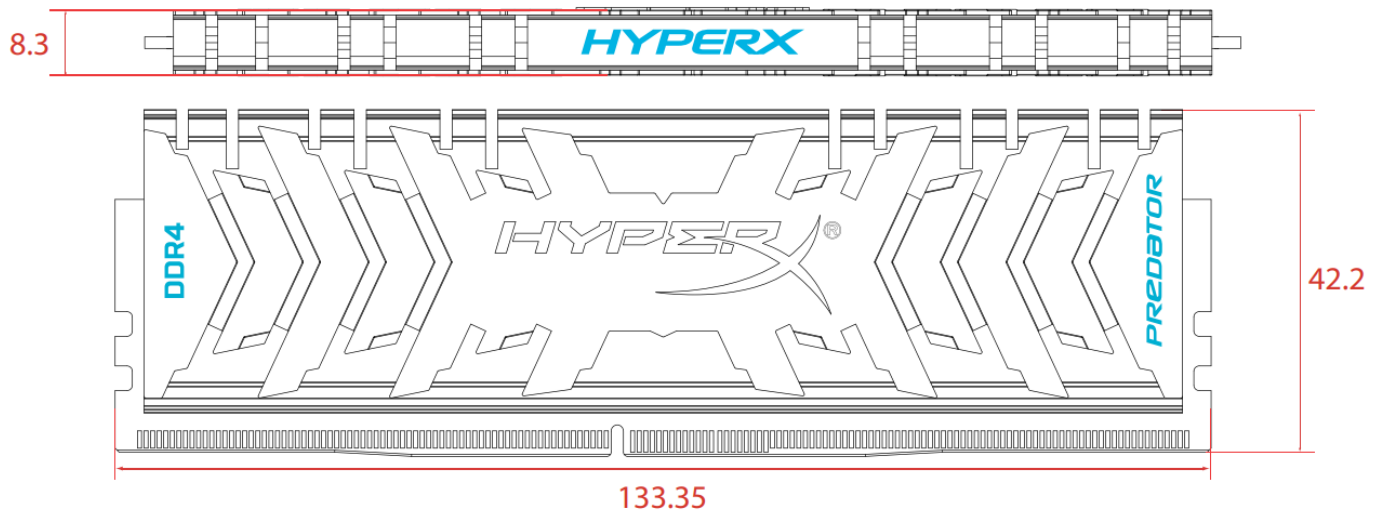
\*Power will vary depending on the SDRAM used.

## FEATURES

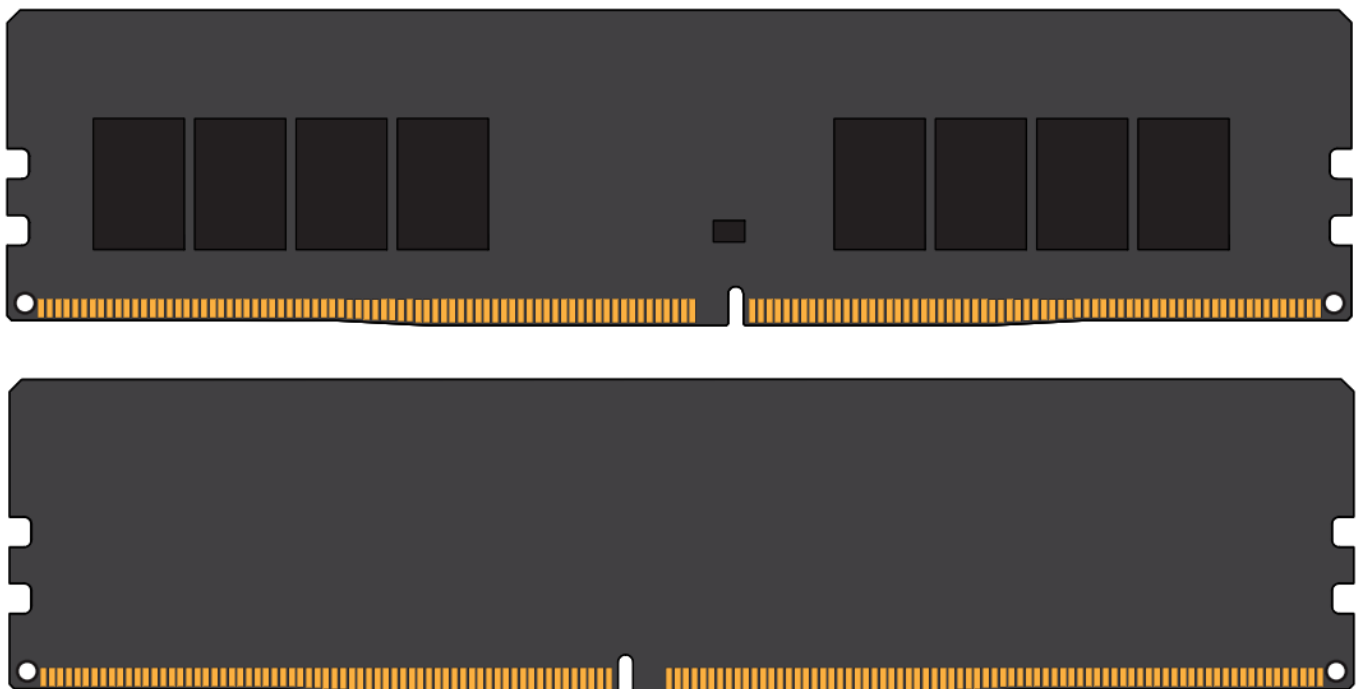
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical

- VPP = 2.5V Typical
- VDDSPD = 2.2V 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)

## MODULE WITH HEAT SPREADER

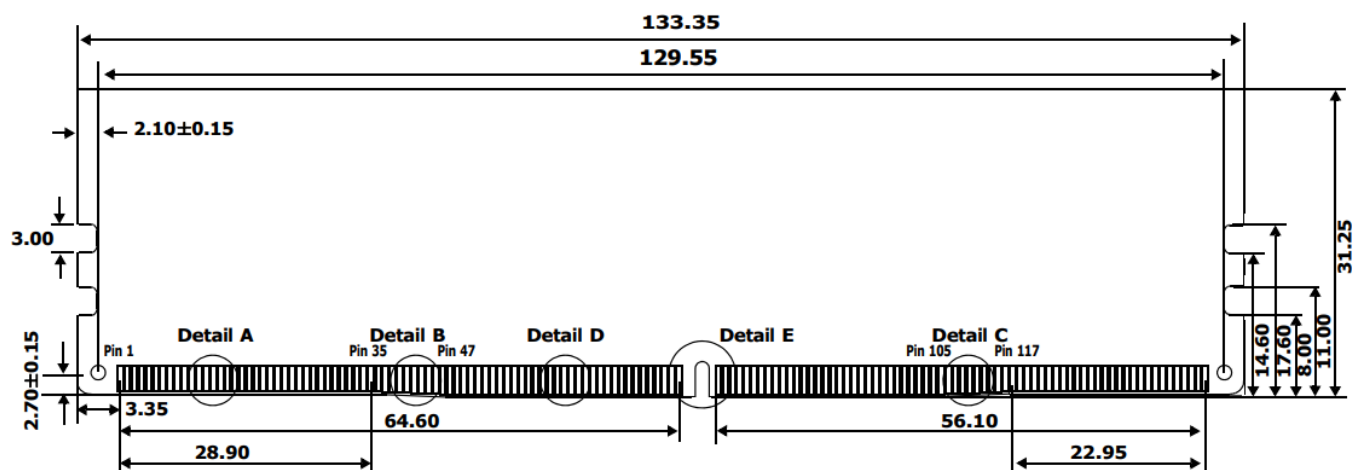


## MODULE DIMENSIONS



**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.HYPERXGAMING.COM](http://WWW.HYPERXGAMING.COM)

All Kingston products are tested to meet our published specifications. Some motherboards or system configurations may not operate at the published HyperX memory speeds and timing settings. Kingston does not recommend that any user attempt to run their computers faster than the published speed. Overclocking or modifying your system timing may result in damage to computer components.



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## Documents / Resources

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|  | <p><a href="#">HyperX HX433C16PB3/8 8GB 1G x 64-Bit DDR4-3333 CL16 288-Pin DIMM Memory Module [pdf] User Guide</a></p> <p>HX433C16PB3 8, 8GB 1G x 64-Bit DDR4-3333 CL16 288-Pin DIMM Memory Module, HX433C16PB3 8 8GB 1G x 64-Bit DDR4-3333 CL16 288-Pin DIMM Memory Module</p> |
|--|---|

## References

- [HyperX | High Quality Gaming Gear](#)
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