



HYPERX HX432C16PB3AK2/32 RAM Memory User Guide

[Home](#) » [HYPERX](#) » HYPERX HX432C16PB3AK2/32 RAM Memory User Guide 

Contents

- [1 HYPERX HX432C16PB3AK2/32 RAM Memory](#)
- [2 DESCRIPTION](#)
 - [2.1 XMP TIMING PARAMETERS](#)
- [3 SPECIFICATIONS](#)
- [4 FEATURES](#)
- [5 MODULE DIMENSIONS](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)



HYPERX HX432C16PB3AK2/32 RAM Memory



DESCRIPTION

HyperX HX432C16PB3AK2/32 is a kit of two 2G x 64-bit (16GB) DDR4-3200 CL16 SDRAM (Synchronous DRAM) 2Rx8, memory module, based on sixteen 1G x 8-bit FBGA components per module. Each module kit supports Intel® Extreme Memory Profiles (Intel® XMP) 2.0. Total capacity is 32GB. Each module has been tested to run at DDR4-3200 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: DDR4-3200 CL16-18-18 @1.35V
- XMP Profile #2: DDR4-3000 CL15-17-17 @1.35V

SPECIFICATIONS

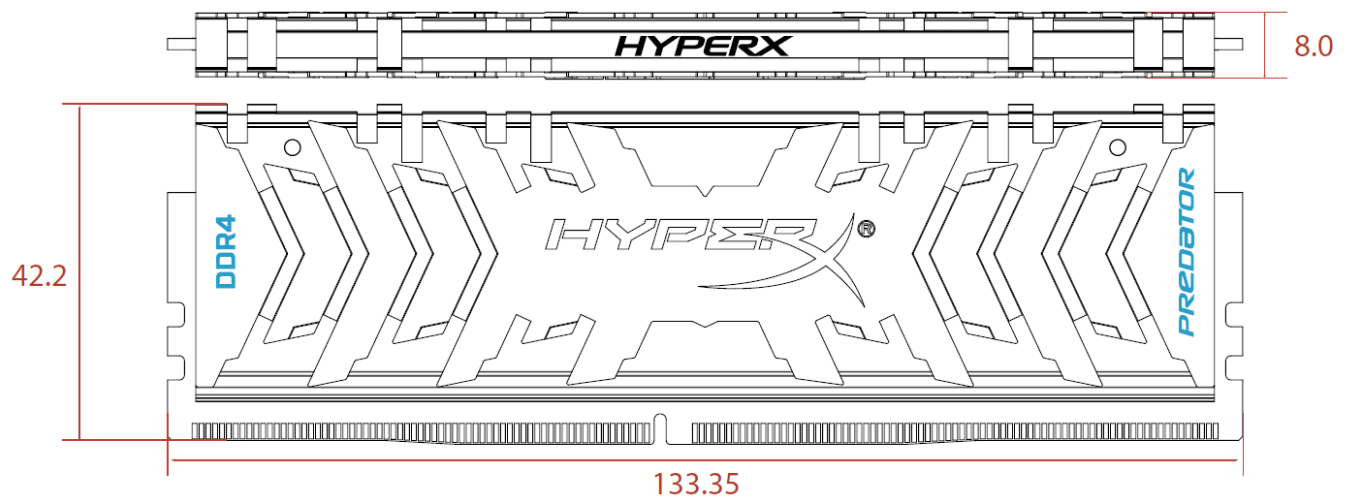
- **CL(IDD)** 17 cycles
- **Row Cycle Time (tRCmin)** 45.75ns(min.)
- **Refresh to Active/Refresh Command Time (tRFCmin)** 350ns(min.)
- **Row Active Time (tRASmin)** 32ns(min.)
- **Maximum Operating Power** TBD W*
- **UL Rating** 94 V – 0
- **Operating Temperature** 0o C to +70o C
- **Storage Temperature** -40o C to +85o C

*Power will vary depending on the SDRAM used.

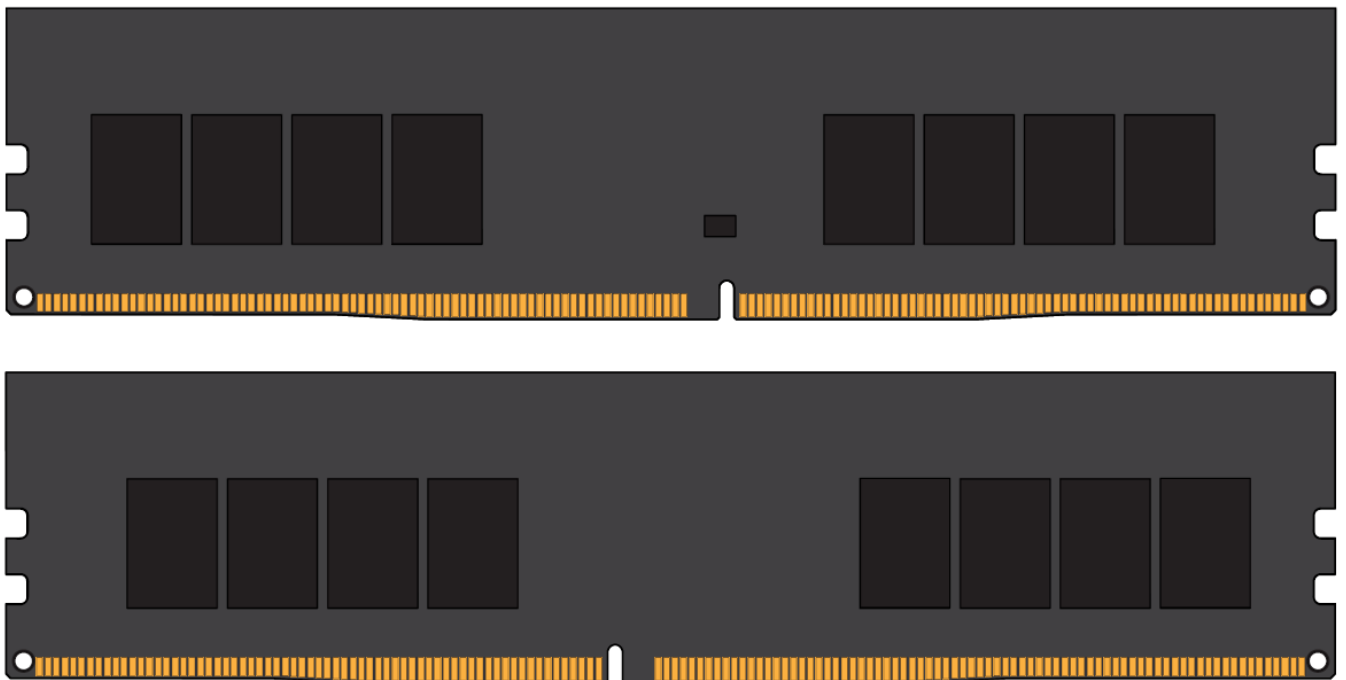
FEATURES

- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.4V to 3.3V
- 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)
- HyperX Infrared Sync working distance 18mm
- Factory preset RGB wave lighting effect
- Height 1.661" (42.20mm)

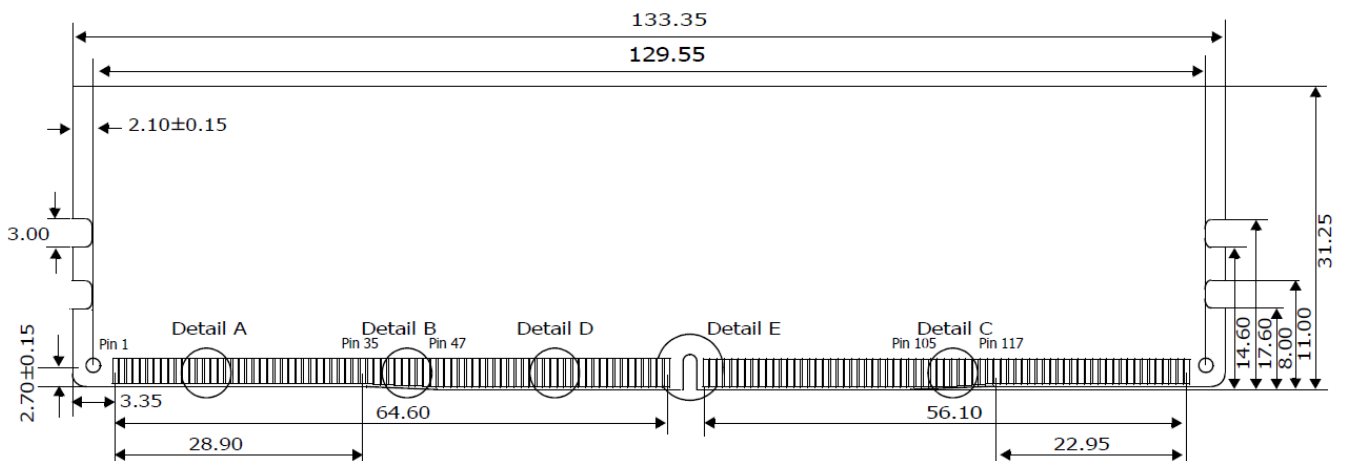
MODULE WITH HEAT SPREADER



MODULE DIMENSIONS



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



The product images shown are for illustration purposes only and may not be an exact representation of the product. Kingston reserves the right to change any information at anytime without notice.

FOR MORE INFORMATION, GO TO 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.

HyperX is a division of Kingston.



©2018 Kingston Technology Corporation, 17600 Newhope Street, Fountain Valley, CA 92708 USA.
All rights reserved. All trademarks and registered trademarks are the property of their respective owners.

hyperxgaming.com

Documents / Resources

	<p>HYPERX HX432C16PB3AK2/32 RAM Memory [pdf] User Guide HX432C16PB3AK2 32 RAM Memory, HX432C16PB3AK2 32, RAM Memory, Memory</p>
---	---

References

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