



# HYPERX HX437C19FB3K2/32 DDR4-3733 CL19 288-Pin DIMM Kit User Guide

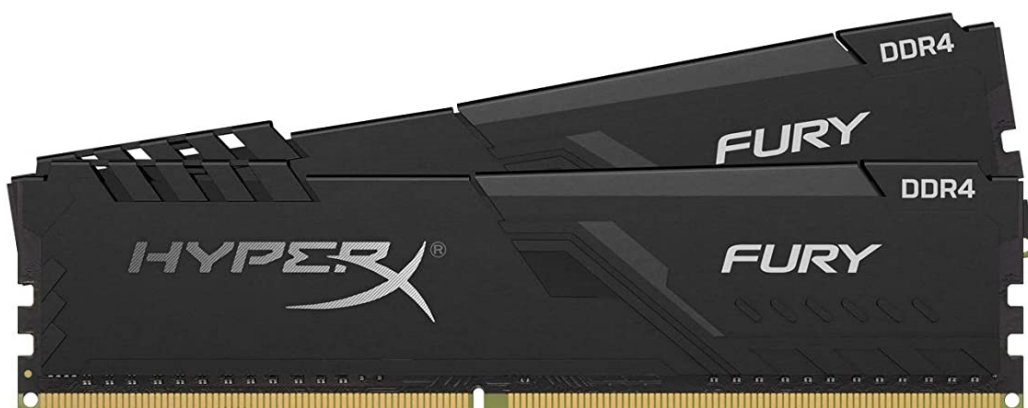
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## HYPERX HX437C19FB3K2/32 DDR4-3733 CL19 288-Pin DIMM Kit



## DESCRIPTION

HyperX HX437C19FB3K2/32 is a kit of two 2G x 64-bit (16GB) DDR4-3733 CL19 SDRAM (Synchronous DRAM) 2Rx8, memory modules, based on sixteen 1G x 8-bit FBGA components per module. Each module kit supports Intel® Extreme Memory Profiles (Intel® XMP) 2.0. The total kit capacity is 32GB. Each module has been tested to run at DDR4-3733 at a low latency timing of 19-23-23 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:

## FACTORY TIMING PARAMETERS

- **Default (JEDEC):** DDR4-2400 CL17-17-17 @1.2V
- **XMP Profile #1:** DDR4-3733 CL19-23-23 @1.35V
- **XMP Profile #2:** DDR4-3600 CL17-21-21 @1.35V

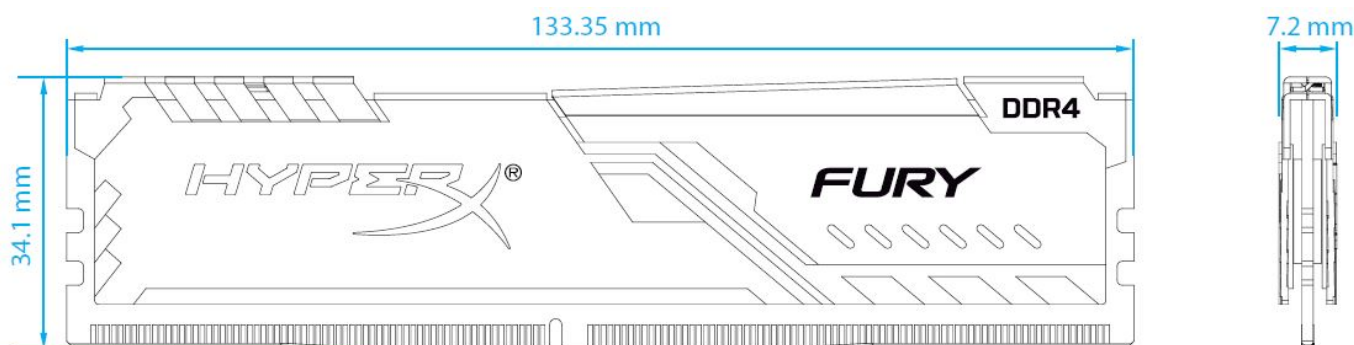
## SPECIFICATIONS

- 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.)
- UL Rating 94 V – 0
- Operating Temperature 0o C to +85o C
- Storage Temperature -55o C to +100o C

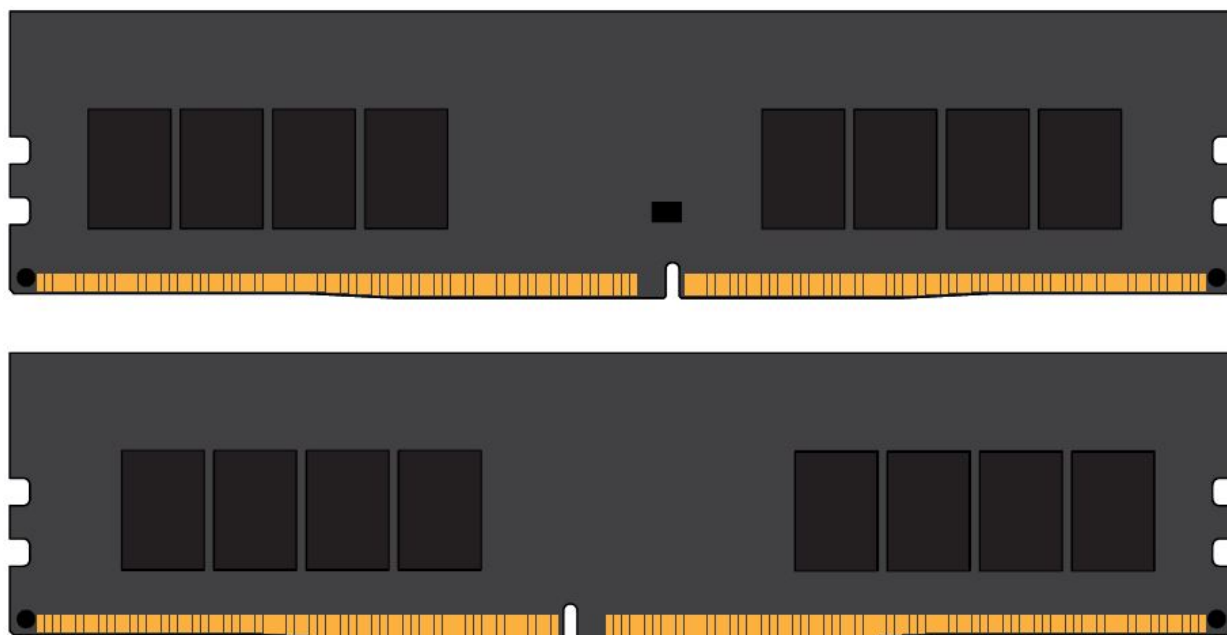
## FEATURES

- **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 1.3425" (34.1mm), w/heatsink

## MODULE WITH HEAT SPREADER

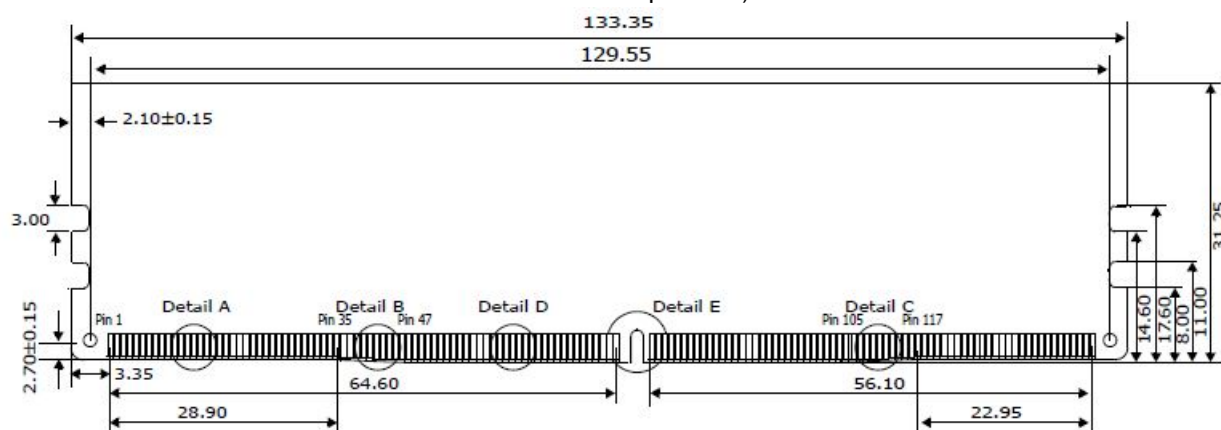


## MODULE DIMENSIONS



**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 [HYPERXGAMING.COM](https://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**



[HYPERX HX437C19FB3K2/32 DDR4-3733 CL19 288-Pin DIMM Kit](#) [pdf] User Guide  
HX437C19FB3K2 32 DDR4-3733 CL19 288-Pin DIMM Kit, HX437C19FB3K2 32, DDR4-3733 CL19 288-Pin DIMM Kit, 288-Pin DIMM Kit

References

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