

# Memory Module Specifications

## KF432C16RB12A/16

16GB 2G x 64-Bit

DDR4-3200 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.)       |
| UL Rating                                        | 94 V - 0         |
| Operating Temperature                            | 0° C to +70° C   |
| Storage Temperature                              | -40° C to +85° C |

## DESCRIPTION

Kingston FURY KF432C16RB12A/16 is a 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. 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:

## FEATURES

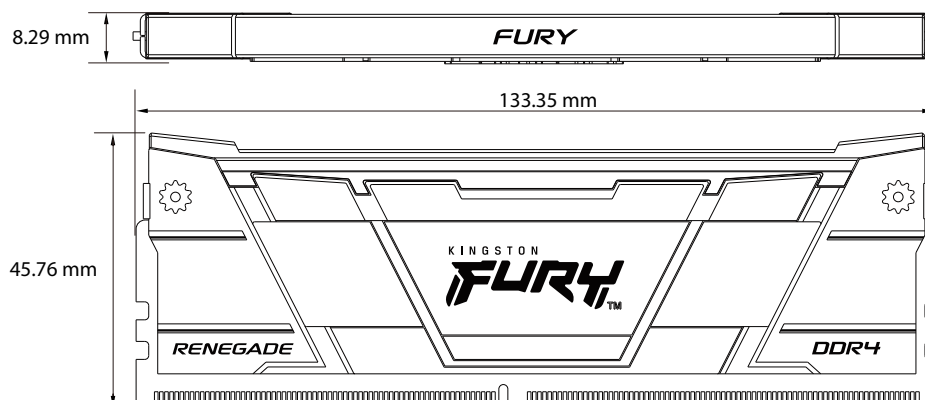
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.2V to 3.6V
- On-Die termination (ODT)
- 16 internal banks; 4 groups of 4 banks each
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Height 1.80" (45.76mm), w/heatsink

## FACTORY TIMING PARAMETERS

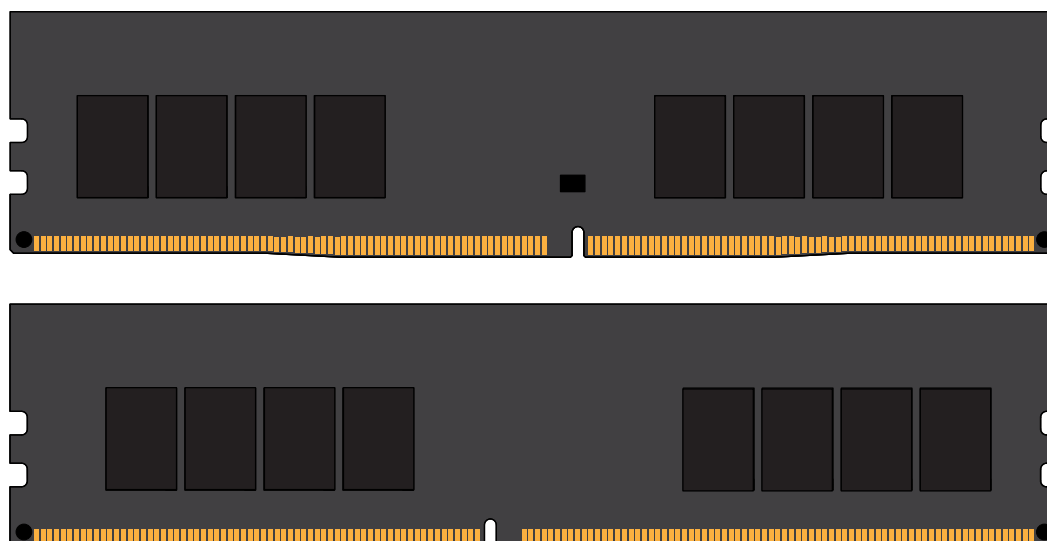
- Default (JEDEC): DDR4-2400 CL17-17-17 @1.2V
- XMP Profile #1: DDR4-3200 CL16-18-18 @1.35V
- XMP Profile #2: DDR4-3000 CL15-17-17 @1.35V

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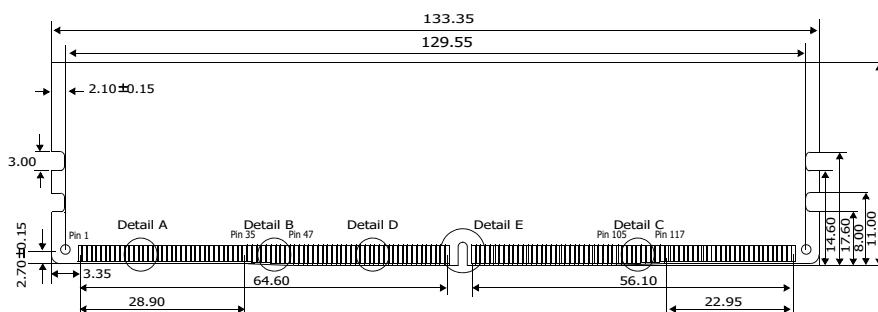
## MODULE WITH HEAT SPREADER



## MODULE DIMENSIONS



All measurements are in millimeters.  
(Tolerances on all dimensions are  $\pm 0.15$  unless otherwise specified)



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All Kingston products are tested to meet our published specifications. Some motherboards or system configurations may not operate at the published Kingston FURY 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.

| Revision No.                                                                                                                                                                                                                             | History         | Release Date | Remark | Editor   | Approved |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|--------|----------|----------|
| A                                                                                                                                                                                                                                        | Initial Release | 08/18/23     |        | David Y. | Alex S.  |
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