

# Memory Module Specifications

## KF588CU42RW-24

24GB 3G x 64-Bit

DDR5-8800 CL42 288-Pin CUDIMM



## DEFAULT SPECIFICATIONS

CL	52 cycles
Row Cycle Time (tRCmin)	48ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	410ns(min.)
Row Active Time (tRASmin)	32ns(min.)
UL Rating	94 V - 0
Operating Temperature	0° C to +85° C
Storage Temperature	-55° C to +100° C

## DESCRIPTION

Kingston FURY KF588CU42RW-24 is a 3G x 64-bit (24GB) DDR5-8800 CL42 Clocked Unbuffered DIMMs (CUDIMMs) 1Rx8, memory module, based on eight 3G x 8-bit FBGA components per module. The module supports Intel® Extreme Memory Profiles (Intel® XMP) 3.0. Each module has been tested to run at DDR5-8200 at a low latency timing of 42-58-58 at 1.4V. The SPDs are programmed to JEDEC standard latency DDR5-6400 timing of 52-52-52 at 1.1V. Each 288-pin DIMM uses gold contact fingers. The JEDEC standard electrical and mechanical specifications are as follows:

## DEFAULT FEATURES

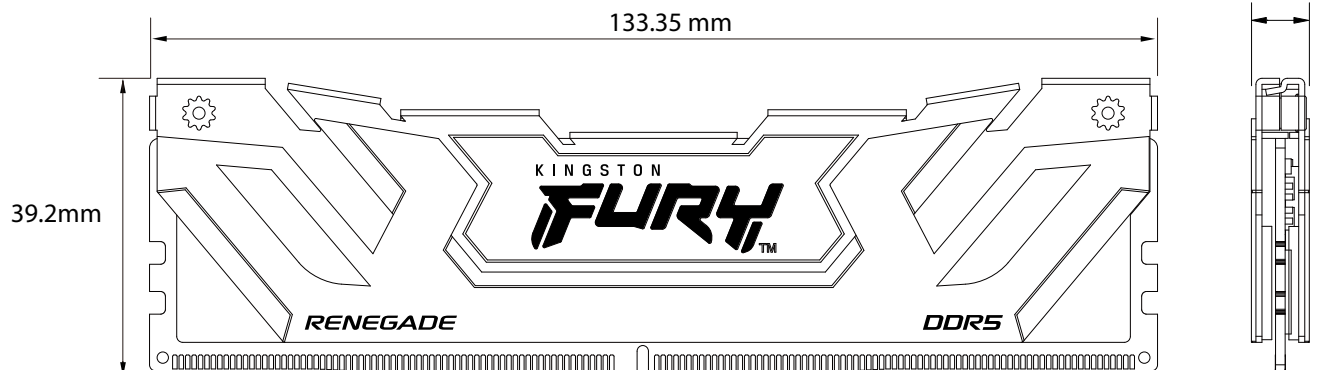
- Power Supply: VDD = 1.1V Typical
- VDDQ = 1.1V Typical
- VPP = 1.8V Typical
- VDDSPD = 1.8V to 2.0V
- On-Die ECC
- Height 1.54" (39.2mm), w/heatsink

## FACTORY TIMING PARAMETERS

- Default (JEDEC): DDR5-6400 CL52-52-52 @1.1V
- XMP Profile #1: DDR5-8800 CL42-58-58 @1.4V
- XMP Profile #2: DDR5-8400 CL40-52-52 @1.4V

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## 7.66 mm



## The image displays two dark gray circuit board layouts, likely for a custom PCB. The top layout features a central cluster of small components, four large square components on the left, and four large square components on the right. A long row of orange component footprints runs along the bottom edge. The bottom layout is mostly empty, with a few small components in the top right corner and a long row of orange component footprints along the bottom edge. Both layouts have white tabs on the left side and a white notch on the bottom edge.

(Tolerances on all dimensions are  $\pm 0.15$  unless otherwise specified)

Top View Dimensions:

- Overall Width: 131.25
- Overall Height: 17.60x2
- Top Flange Thickness: 2.00x2
- Top Flange Inner Radius: R 0.65 MAX. 8 PLACES
- Top Flange Inner Diameter: 11.00x2
- Top Flange Inner Width: 8.00x2
- Top Flange Inner Height: 3.50x2
- Top Flange Inner Width: 1.30
- Top Flange Inner Height: 0.00
- Top Flange Inner Width: 0.00
- Top Flange Inner Height: 1.75
- Top Flange Inner Width: 35.65
- Top Flange Inner Height: 45.85
- Top Flange Inner Width: 101.10
- Top Flange Inner Height: 111.30
- Top Flange Inner Width: 131.60
- Top Flange Inner Height: 131.25x2
- Top Flange Inner Width: 133.35
- Top Flange Inner Height: RADIUS 1.50 2 PLACES
- Top Flange Inner Width: RADIUS 0.80 2 PLACES

Side View Dimensions:

- Overall Width: 131.25
- Overall Height: 17.60x2
- Top Flange Thickness: 2.00x2
- Top Flange Inner Radius: R 0.65 MAX. 8 PLACES
- Top Flange Inner Diameter: 11.00x2
- Top Flange Inner Width: 8.00x2
- Top Flange Inner Height: 3.50x2
- Top Flange Inner Width: 1.30
- Top Flange Inner Height: 0.00
- Top Flange Inner Width: 0.00
- Top Flange Inner Height: 1.75
- Top Flange Inner Width: 35.65
- Top Flange Inner Height: 45.85
- Top Flange Inner Width: 101.10
- Top Flange Inner Height: 111.30
- Top Flange Inner Width: 131.60
- Top Flange Inner Height: 131.25x2
- Top Flange Inner Width: 133.35
- Top Flange Inner Height: RADIUS 1.50 2 PLACES
- Top Flange Inner Width: RADIUS 0.80 2 PLACES

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.