

# Memory Module Specifications

## KF584CU40RS-24

24GB 3G x 64-Bit

DDR5-8400 CL40 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 KF584CU40RS-24 is a 3G x 64-bit (24GB) DDR5-8400 CL40 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 DDR5-8400 at a low latency timing of 40-52-52 at 1.45V. 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

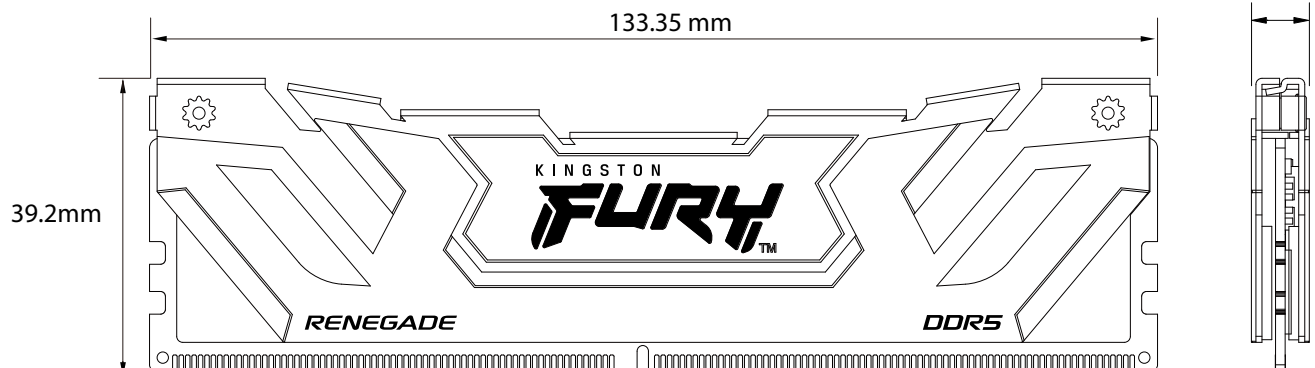
- Power Supply: VDD = 1.1V Typical
- VDDQ = 1.1V Typical
- VPP = 1.8V Typical
- VDDSPD = 1.8V to 2.0V
- On-Die ECC
- Height 1.54" (39.2mm), w/heatsink

## FACTORY TIMING PARAMETERS

- Default (JEDEC): DDR5-6400 CL52-52-52 @1.1V
- XMP Profile #1: DDR5-8400 CL40-52-52 @1.45V
- XMP Profile #2: DDR5-8000 CL38-48-48 @1.45V
- XMP Profile #3: DDR5-7600 CL38-46-46 @1.45V

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8.2 mm



## The image displays two dark gray circuit board layouts, likely for a custom PCB design. The top layout features a central cluster of small, dark gray rectangular components, possibly integrated circuits or microcontrollers, arranged in a grid-like pattern. Below this central area, there are four large, dark gray rectangular components, likely capacitors or inductors, arranged in a row. The bottom layout is mostly empty, with a few small, dark gray rectangular components located near the top edge. Both layouts have a series of orange rectangular footprints along the bottom edge, representing component footprints or mounting pads. The boards are shown from a top-down perspective, with a white border around the edges.

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

Technical drawing of a mechanical part with dimensions and tolerances. The drawing shows a side view of a component with a central hole and various radii and dimensions.

Dimensions and Tolerances:

- Overall width: 131.25
- Overall height: 131.25
- Top edge dimensions (from left to right): 0.00, 2.10  $\pm 2$ , 17.60  $\times 2$ , 14.60  $\times 2$ , 11.00  $\times 2$ , 8.00  $\times 2$ , 3.50  $\times 2$ , 1.30, 0.00
- Bottom edge dimensions (from left to right): 0.00, 1.75, 35.65, 45.85, 38.10  $\pm 0.10$ , 1.50  $\pm 0.05$ , 10.10, 11.30, 131.60
- Central hole diameter: 3.85  $\pm 0.10$
- Top edge radii: R 0.65 MAX. 8 PLACES, R. 0.35  $\times 2$
- Bottom edge radii: R. 0.35  $\times 2$ , RADIUS 0.80 2 PLACES
- Right edge radii: RADIUS 1.50 2 PLACES

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