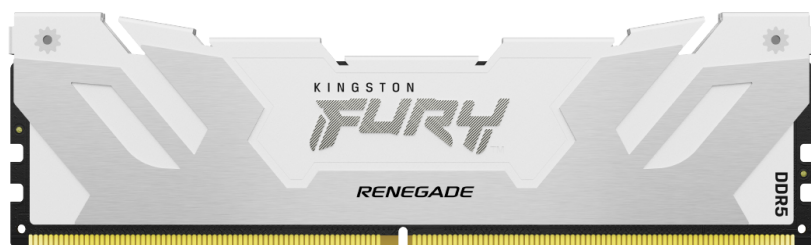


Memory Module Specifications

KF564C32RWK2-32

32GB (16GB 2G x 64-Bit x 2 pcs.)
DDR5-6400 CL32 288-Pin DIMM Kit



DEFAULT SPECIFICATIONS

CL(IDD)	40 cycles
Row Cycle Time (tRCmin)	48ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	295ns(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 KF564C32RWK2-32 is a kit of two 2G x 64-bit (16GB) DDR5-6400 CL32 SDRAM (Synchronous DRAM) 1Rx8, memory module, based on eight 2G x 8-bit FBGA components per module. Each module kit supports Intel® Extreme Memory Profiles (Intel® XMP) 3.0. Total kit capacity is 32GB. Each module has been tested to run at DDR5-6400 at a low latency timing of 32-39-39 at 1.4V. The SPDs are programmed to JEDEC standard latency DDR5-4800 timing of 40-39-39 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): DDR5-4800 CL40-39-39 @1.1V
- XMP Profile #1: DDR5-6400 CL32-39-39 @1.4V
- XMP Profile #2: DDR5-6000 CL32-38-38 @1.35V
- XMP Profile #3: DDR5-4800 CL38-38-38 @1.1V

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Technical drawing of the Kingston Fury Renegade DDR5 memory module. The top view shows a length of 133.35 mm and a height of 2 mm. The side view shows a width of 8.2 mm. The module features the Kingston Fury Renegade logo and the text "DDR5" on the right side.

The image displays two grayscale photographs of a circuit board, likely a Raspberry Pi 4, showing both the front and back sides. The top photograph shows the front side, featuring a central processor chip, various peripheral chips, capacitors, and four large rectangular heat sinks. The bottom photograph shows the back side, which is mostly empty except for some small components and a connector.

(Tolerances on all dimensions are ± 0.15 unless otherwise specified)

Top View Dimensions:

- Overall Width: 131.25
- Overall Height: 131.25
- Left Side Features:
 - Top: 0.00, 2.0x2
 - Bottom: 0.00, 1.75
 - Internal Features: 17.60x2, 14.60x2, 11.00x2, 8.00x2, 3.50x2, 1.30, 0.00
 - Radius: R. 0.65 MAX. 8 PLACES
- Right Side Features:
 - Top: 131.25x2, 133.35
 - Radius: RADIUS 1.50 2 PLACES
 - Bottom: 131.60, RADIUS 0.80 2 PLACES
- Bottom View Dimensions:
 - Overall Length: 131.60
 - Internal Features: 3.85 ± 0.10 , 1.50 ± 0.05 , 101.10, 111.30
 - Radius: R. 0.35x2

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.