

Memory Module Specifications

KF564C32RS-24

24GB 3G x 64-Bit

DDR5-6400 CL32 288-Pin DIMM



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 KF564C32RS-24 is a 3G x 64-bit (24GB) DDR5-6400 CL32 SDRAM (Synchronous DRAM) 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 DDR5-6400 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:

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 drawing shows the top and side views. The top view is a long, narrow rectangle with a central logo area. The logo area contains the text "KINGSTON" above "FURY" in a large, stylized font, and "RENEGADE" below it. The text "DDR5" is printed on the right side. The module has a central notch and two mounting tabs on the left and right sides. The side view shows the module's profile, including the gold-plated contacts and the mounting tabs. Dimensions are provided: 133.35 mm for the length, 2 mm for the height, and 7.65 mm for the width of the mounting tabs.

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

131.25

0.00

2.0x2

17.60x2

14.60x2

11.00x2

8.00x2

3.50x2

1.30

0.00

0.00

1.75

35.65

45.85

0.8810 ± 0.010

3.85 ± 0.10

R. 0.65 MAX.
8 PLACES

R. 0.35x2

1.50 ± 0.05

101.10

111.30

131.60

0.35 ± 0.05

131.25x2

133.35

RADIUS 1.50
2 PLACES

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.