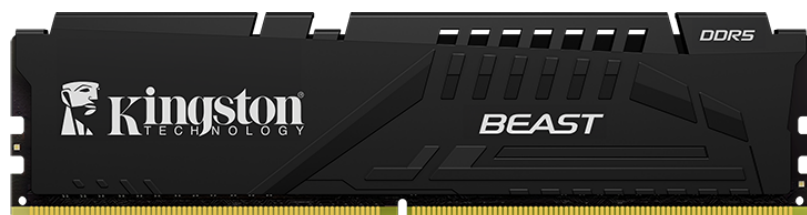


# Memory Module Specifications

## KF552C36BBEK2-64TR

64GB (32GB 4G x 64-Bit x 2 pcs.)

DDR5-5200 CL36 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 KF552C36BBEK2-64TR is a kit of two 4G x 64-bit (32GB) DDR5-5200 CL36 SDRAM (Synchronous DRAM) 2Rx8, memory module, based on sixteen 2G x 8-bit FBGA components per module. Each module kit supports AMD® EXPO v1.0 and Intel® Extreme Memory Profiles (Intel® XMP) 3.0. Total kit capacity is 64GB. Each module has been tested to run at DDR5-5200 at a low latency timing of 36-40-40 at 1.25V. 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 1.37" (34.88mm), w/heatsink

## FACTORY TIMING PARAMETERS

- Default (JEDEC): DDR5-4800 CL40-39-39 @1.1V
- EXPO Profile #0: DDR5-5200 CL36-40-40 @1.25V
- EXPO Profile #1: DDR5-4800 CL38-38-38 @1.1V
- XMP Profile #1: DDR5-5200 CL36-40-40 @1.25V
- XMP Profile #2: DDR5-4800 CL38-38-38 @1.1V

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Technical drawing of the Kingston Beast DDR5 memory module. The top view shows a length of 133.35 mm and a width of 34.88 mm. The side view shows a height of 6.62 mm. The module features the Kingston Technology logo, the 'BEAST' branding, and 'DDR5' labeling. The drawing includes detailed outlines of the module's components, including the heat spreader and the memory chips.

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

**Top View Dimensions:**

- Overall width: 131.25
- Overall height: 17.60
- Top edge features: 14.60x2, 11.00x2, 8.00x2, 3.50x2
- Top edge radii: R 0.65 MAX. 8 PLACES
- Bottom edge features: 3.50x2, 1.30, 0.00
- Bottom edge radii: R. 0.35x2
- Bottom edge dimensions: 0.00, 1.75, 35.65, 45.85, 68.10, 101.10, 111.30, 131.60
- Bottom edge hole: 1.50  $\pm 0.05$
- Bottom edge hole radius: R. 0.35x2
- Bottom edge hole dimensions: 0.00, 1.75, 35.65, 45.85, 68.10, 101.10, 111.30, 131.60
- Bottom edge hole radius: R. 0.35x2
- Bottom edge hole dimensions: 0.00, 1.75, 35.65, 45.85, 68.10, 101.10, 111.30, 131.60

**Side View Dimensions:**

- Overall width: 131.25
- Overall height: 17.60
- Top edge features: 14.60x2, 11.00x2, 8.00x2, 3.50x2
- Top edge radii: R 0.65 MAX. 8 PLACES
- Bottom edge features: 3.50x2, 1.30, 0.00
- Bottom edge radii: R. 0.35x2
- Bottom edge dimensions: 0.00, 1.75, 35.65, 45.85, 68.10, 101.10, 111.30, 131.60
- Bottom edge hole: 1.50  $\pm 0.05$
- Bottom edge hole radius: R. 0.35x2
- Bottom edge hole dimensions: 0.00, 1.75, 35.65, 45.85, 68.10, 101.10, 111.30, 131.60
- Bottom edge hole radius: R. 0.35x2
- Bottom edge hole dimensions: 0.00, 1.75, 35.65, 45.85, 68.10, 101.10, 111.30, 131.60

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