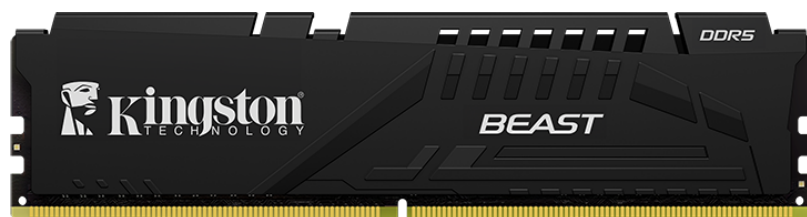


Memory Module Specifications

KF568C34BBK2-32TR

32GB (16GB 2G x 64-Bit x 2 pcs.)

DDR5-6800 CL34 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 KF568C34BBK2-32TR is a kit of two 2G x 64-bit (16GB) DDR5-6800 CL34 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 DDR5-6800 at a low latency timing of 34-45-45 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 1.37" (34.88mm), w/heatsink

FACTORY TIMING PARAMETERS

- Default (JEDEC): DDR5-4800 CL40-39-39 @1.1V
- XMP Profile #1: DDR5-6800 CL34-45-45 @1.4V
- XMP Profile #2: DDR5-6400 CL32-39-39 @1.4V
- XMP Profile #3: DDR5-6000 CL30-36-36 @1.4V

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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 word "BEAST", and the "DDR5" label. The drawing includes detailed outlines of the module's components, including the heat spreader and the memory chips.

The image displays two dark gray circuit board layouts. The top board features a central cluster of components, including a large square chip, several smaller rectangular chips, and numerous tiny surface-mount components. It has four square components on the left and four on the right, with a long orange pin header at the bottom. The bottom board is mostly empty, with a small cluster of three tiny components in the upper right corner and a long orange pin header at the bottom. Both boards have white notches on their left edges and small circular holes at the corners.

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

Top View Dimensions:

- Overall width: 131.25
- Overall height: 17.60
- Top edge features:
 - Top flange: 14.60 x 2
 - Top hole: 11.00 x 2
 - Top hole: 8.00 x 2
 - Top hole: 3.50 x 2
- Bottom edge features:
 - Bottom hole: 11.00 x 2
 - Bottom hole: 8.00 x 2
 - Bottom hole: 3.50 x 2
- Internal features:
 - Radius: R 0.65 MAX. 8 PLACES
 - Radius: R 0.35 x 2
 - Radius: R 1.50 2 PLACES
 - Radius: R 0.80 2 PLACES

Side View Dimensions:

- Overall length: 131.60
- Overall thickness: 68.10
- Internal features:
 - Radius: R 0.35 x 2
 - Radius: R 1.50 2 PLACES
 - Radius: R 0.80 2 PLACES

Other Dimensions:

- Top edge: 31.25
- Bottom edge: 31.25
- Internal features:
 - Radius: R 0.65 MAX. 8 PLACES
 - Radius: R 0.35 x 2
 - Radius: R 1.50 2 PLACES
 - Radius: R 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 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.