

# Memory Module Specifications

## KF436C17BB2A/8

8GB 1G x 64-Bit

DDR4-3600 CL17 288-Pin DIMM



## SPECIFICATIONS

CL(IDD)	17 cycles
Row Cycle Time (tRCmin)	45.75ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns(min.)
Row Active Time (tRASmin)	32ns(min.)
UL Rating	94 V - 0
Operating Temperature	0° C to +70° C
Storage Temperature	-40° C to +85° C

## DESCRIPTION

Kingston FURY KF436C17BB2A/8 is a 1G x 64-bit (8GB) DDR4-3600 CL17 SDRAM (Synchronous DRAM) 1Rx8, memory module, based on eight 1G x 8-bit FBGA components per module. Each module kit supports Intel® Extreme Memory Profiles (Intel® XMP) 2.0. Each module has been tested to run at DDR4-3600 at a low latency timing of 17-21-21 at 1.35V. The SPDs are programmed to JEDEC standard latency DDR4-2400 timing of 17-17-17 at 1.2V. Each 288-pin DIMM uses gold contact fingers. The JEDEC standard electrical and mechanical specifications are as follows:

## FEATURES

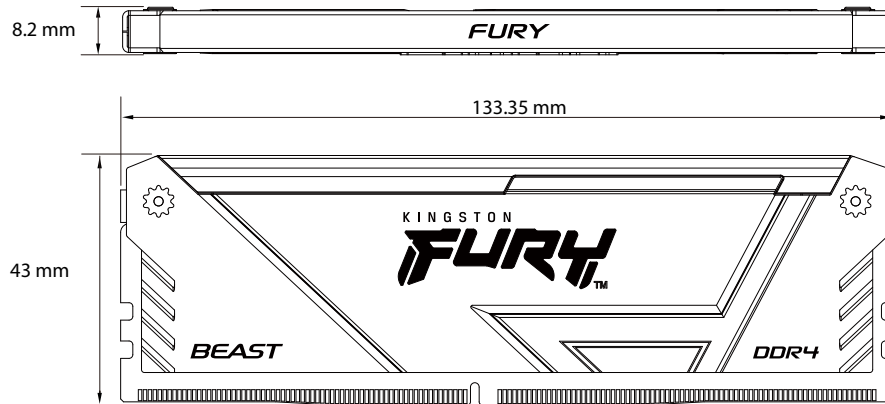
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.2V to 3.6V
- On-Die termination (ODT)
- 16 internal banks; 4 groups of 4 banks each
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Height 1.69" (43mm), w/heatsink

## FACTORY TIMING PARAMETERS

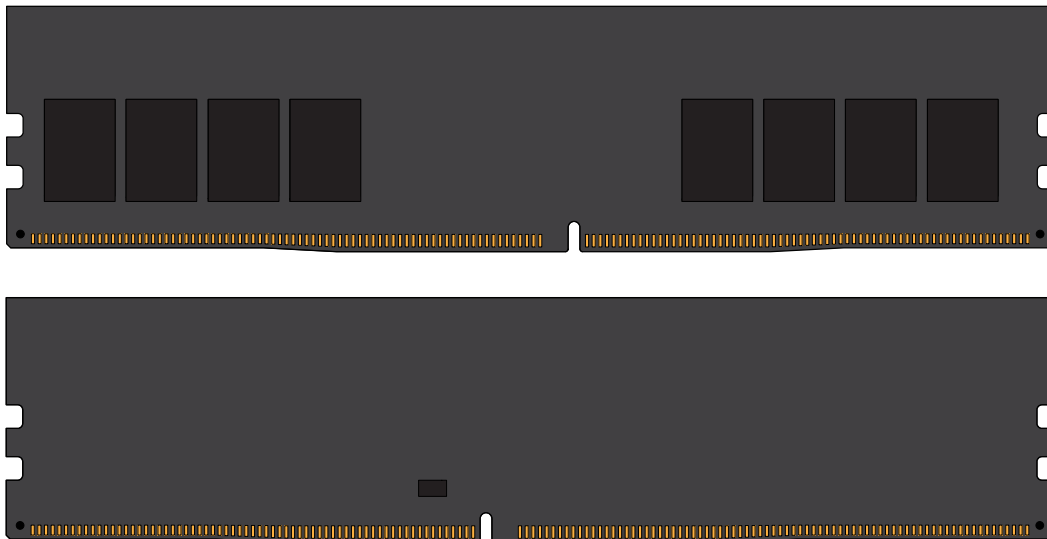
- Default (JEDEC): DDR4-2400 CL17-17-17 @1.2V
- XMP Profile #1: DDR4-3600 CL17-21-21 @1.35V
- XMP Profile #2: DDR4-3000 CL15-17-17 @1.35V

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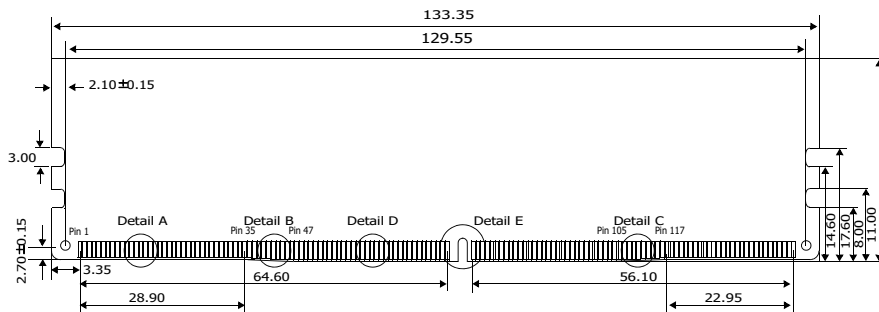
## MODULE WITH HEAT SPREADER



## MODULE DIMENSIONS



All measurements are in millimeters.  
(Tolerances on all dimensions are  $\pm 0.15$  unless otherwise specified)



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Revision No.	History	Release Date	Remark	Editor	Approved
A	Initial Release	07/25/23		David Y.	Alex S.

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# Memory Module Specifications

## KF436C18BB2A/16

16GB 2G x 64-Bit

DDR4-3600 CL18 288-Pin DIMM



## SPECIFICATIONS

CL(IDD)	17 cycles
Row Cycle Time (tRCmin)	45.75ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns(min.)
Row Active Time (tRASmin)	32ns(min.)
UL Rating	94 V - 0
Operating Temperature	0° C to +70° C
Storage Temperature	-40° C to +85° C

## DESCRIPTION

Kingston FURY KF436C18BB2A/16 is a 2G x 64-bit (16GB) DDR4-3600 CL18 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) 2.0. Each module has been tested to run at DDR4-3600 at a low latency timing of 18-22-22 at 1.35V. The SPDs are programmed to JEDEC standard latency DDR4-2400 timing of 17-17-17 at 1.2V. Each 288-pin DIMM uses gold contact fingers. The JEDEC standard electrical and mechanical specifications are as follows:

## FEATURES

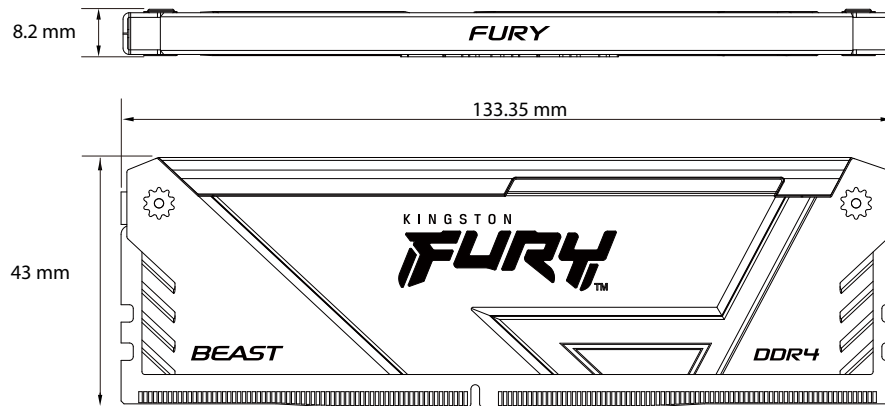
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.2V to 3.6V
- On-Die termination (ODT)
- 16 internal banks; 4 groups of 4 banks each
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Height 1.69" (43mm), w/heatsink

## FACTORY TIMING PARAMETERS

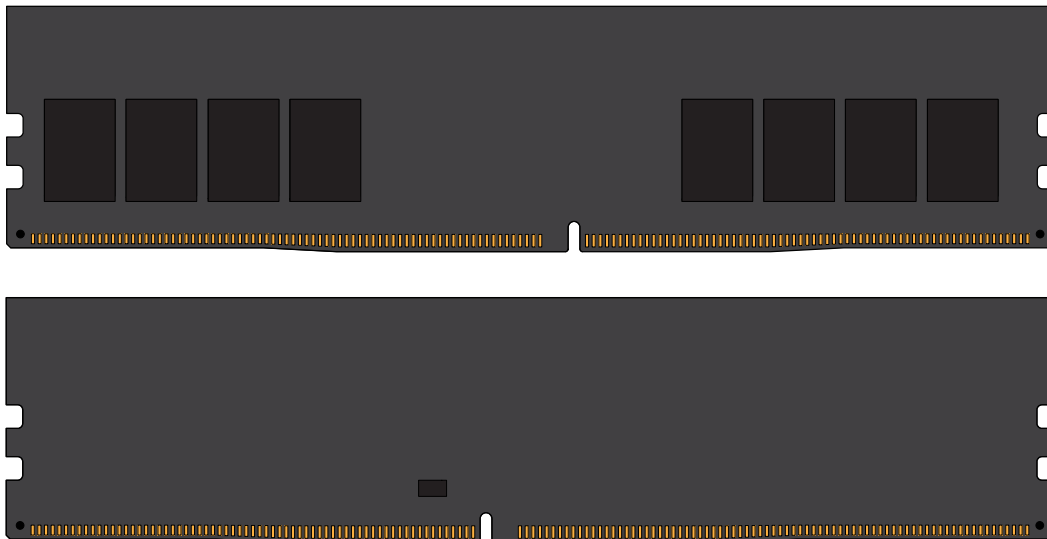
- Default (JEDEC): DDR4-2400 CL17-17-17 @ 1.2V
- XMP Profile #1: DDR4-3600 CL18-22-22 @ 1.35V
- XMP Profile #2: DDR4-3000 CL16-18-18 @ 1.35V

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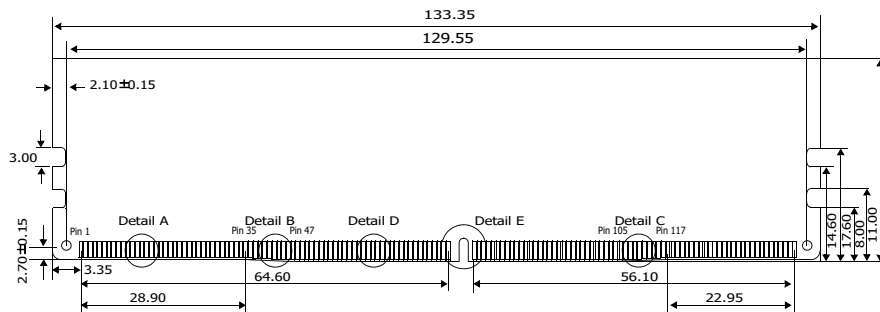
## MODULE WITH HEAT SPREADER



## MODULE DIMENSIONS



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# Memory Module Specifications

## KF436C18BB2A/32

32GB 4G x 64-Bit

DDR4-3600 CL18 288-Pin DIMM



## SPECIFICATIONS

CL(IDD)	17 cycles
Row Cycle Time (tRCmin)	45.75ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns(min.)
Row Active Time (tRASmin)	32ns(min.)
UL Rating	94 V - 0
Operating Temperature	0° C to +70° C
Storage Temperature	-40° C to +85° C

## DESCRIPTION

Kingston FURY KF436C18BB2A/32 is a 4G x 64-bit (32GB) DDR4-3600 CL18 SDRAM (Synchronous DRAM) 2Rx8, memory module, based on sixteen 2G x 8-bit FBGA components per module. Each module kit supports Intel® Extreme Memory Profiles (Intel® XMP) 2.0. Each module has been tested to run at DDR4-3600 at a low latency timing of 18-22-22 at 1.35V. The SPDs are programmed to JEDEC standard latency DDR4-2400 timing of 17-17-17 at 1.2V. Each 288-pin DIMM uses gold contact fingers. The JEDEC standard electrical and mechanical specifications are as follows:

## FEATURES

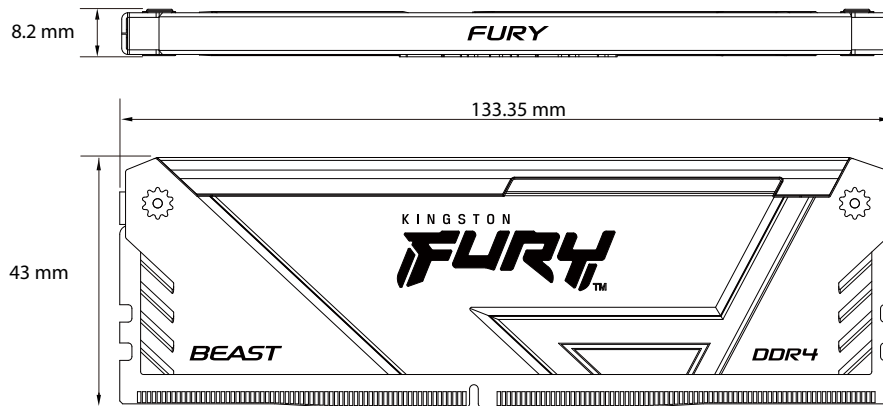
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.2V to 3.6V
- On-Die termination (ODT)
- 16 internal banks; 4 groups of 4 banks each
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Height 1.69" (43mm), w/heatsink

## FACTORY TIMING PARAMETERS

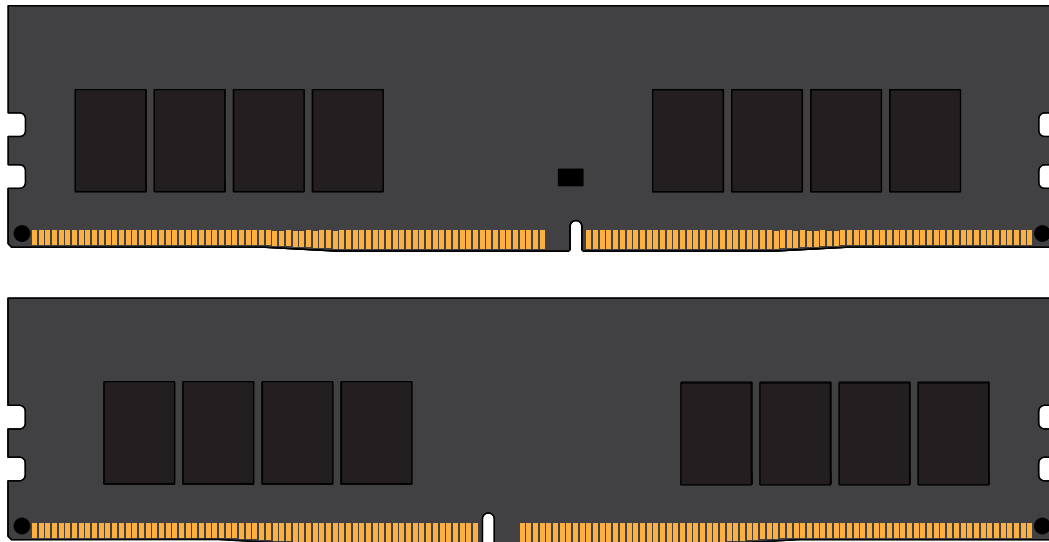
- Default (JEDEC): DDR4-2400 CL17-17-17 @ 1.2V
- XMP Profile #1: DDR4-3600 CL18-22-22 @ 1.35V
- XMP Profile #2: DDR4-3000 CL16-18-18 @ 1.35V

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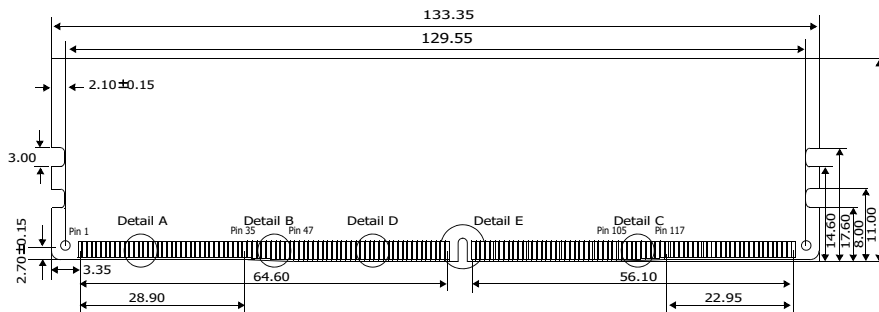
## MODULE WITH HEAT SPREADER



## MODULE DIMENSIONS



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