# KF440C19RB1/16
16GB 2G x 64-Bit
DDR4-4000 CL19 288-Pin DIMM
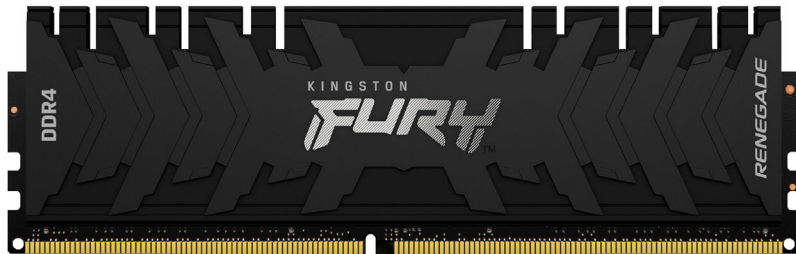


## SPECIFICATIONS

| | |
|---|---|
| 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 +85° C |
| Storage Temperature | -55° C to +100° C |

## DESCRIPTION

FURY KF440C19RB1/16 is a 2G x 64-bit (16GB) DDR4-4000 CL19 SDRAM (Synchronous DRAM) 2Rx8, memory module, based on sixteen 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 DDR4-4000 at a low latency timing of 19-23-23 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 1.66" (42.2mm), w/heatsink
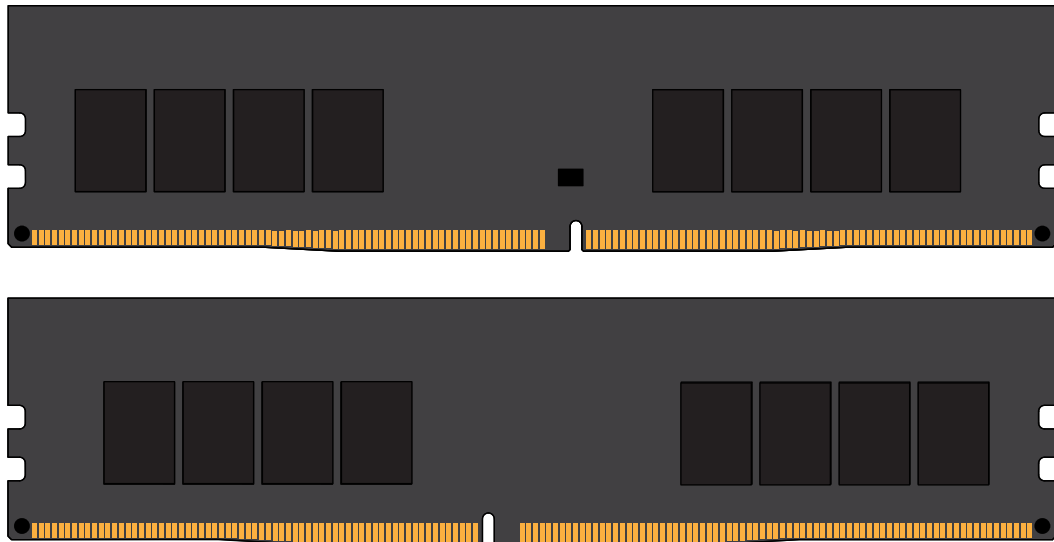
## FACTORY TIMING PARAMETERS

- Default (JEDEC):        DDR4-2400 CL17-17-17 @1.2V
- XMP Profile #1:        DDR4-4000 CL19-23-23 @1.35V
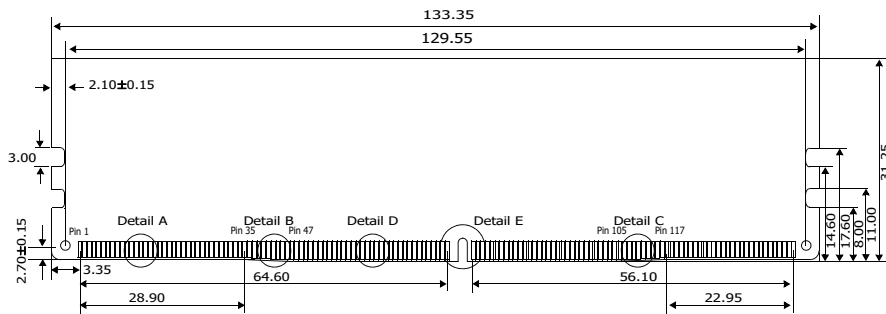- XMP Profile #2:        DDR4-3600 CL17-21-21 @1.35V

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## MODULE WITH HEAT SPREADER

133.35 mm

42.2 mm

8.3 mm

DDR4

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RENEGADE

## MODULE DIMENSIONS

All measurements are in millimeters.
(Tolerances on all dimensions are ±0.12 unless otherwise specified)

133.35
129.55
2.10±0.15
3.00
2.70±0.15
Pin 1
Detail A
Detail B  Pin 35   Pin 47
Detail D
Detail E
Detail C  Pin 105  Pin 117
3.35
64.60
56.10
28.90
22.95
31.25
14.60
17.60
8.00
11.00

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