



HyperX HX432C16FB3AK2/32 RAM Memory User Guide

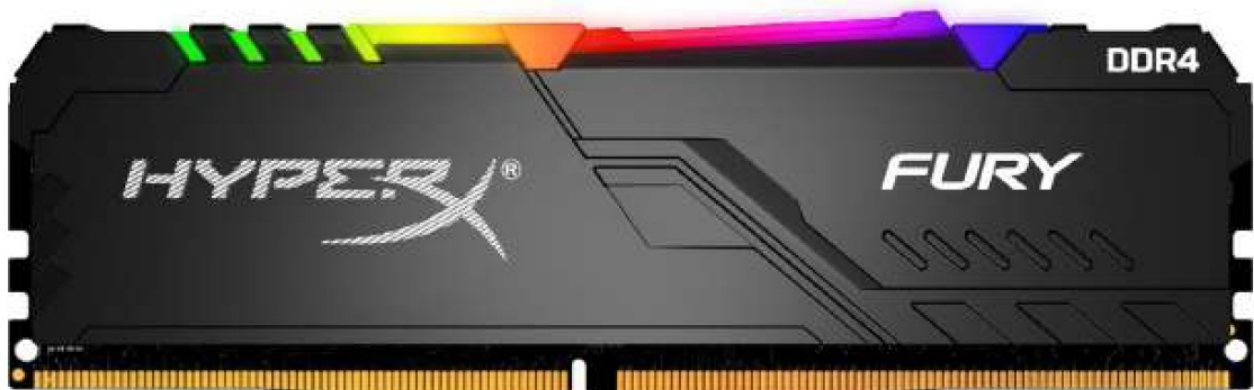
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HyperX HX432C16FB3AK2/32 RAM Memory



DESCRIPTION

HyperX HX432C16FB3AK2/32 is a kit of two 2G x 64-bit (16GB) DDR4-3200 CL16 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. Total kit capacity is 32GB. Each module has been tested to run at DDR4-3200 at a low latency timing of 16-18-18 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:

FACTORY TIMING PARAMETERS

- Default (JEDEC): DDR4-2400 CL17-17-17 @1.2V
- XMP Profile #1: DDR4-3200 CL16-18-18 @1.35V
- XMP Profile #2: DDR4-3000 CL15-17-17 @1.35V

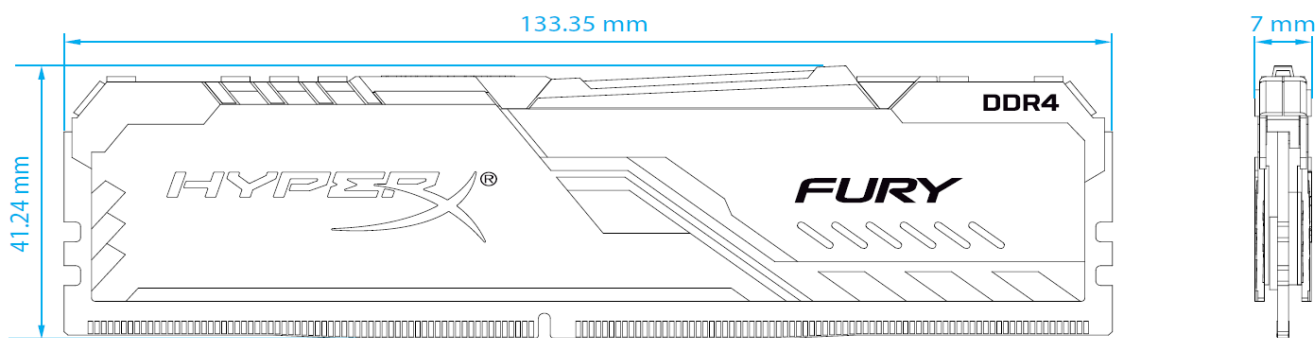
SPECIFICATIONS

- **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** 0o C to +70o C
- **Storage Temperature** -40o C to +85o C

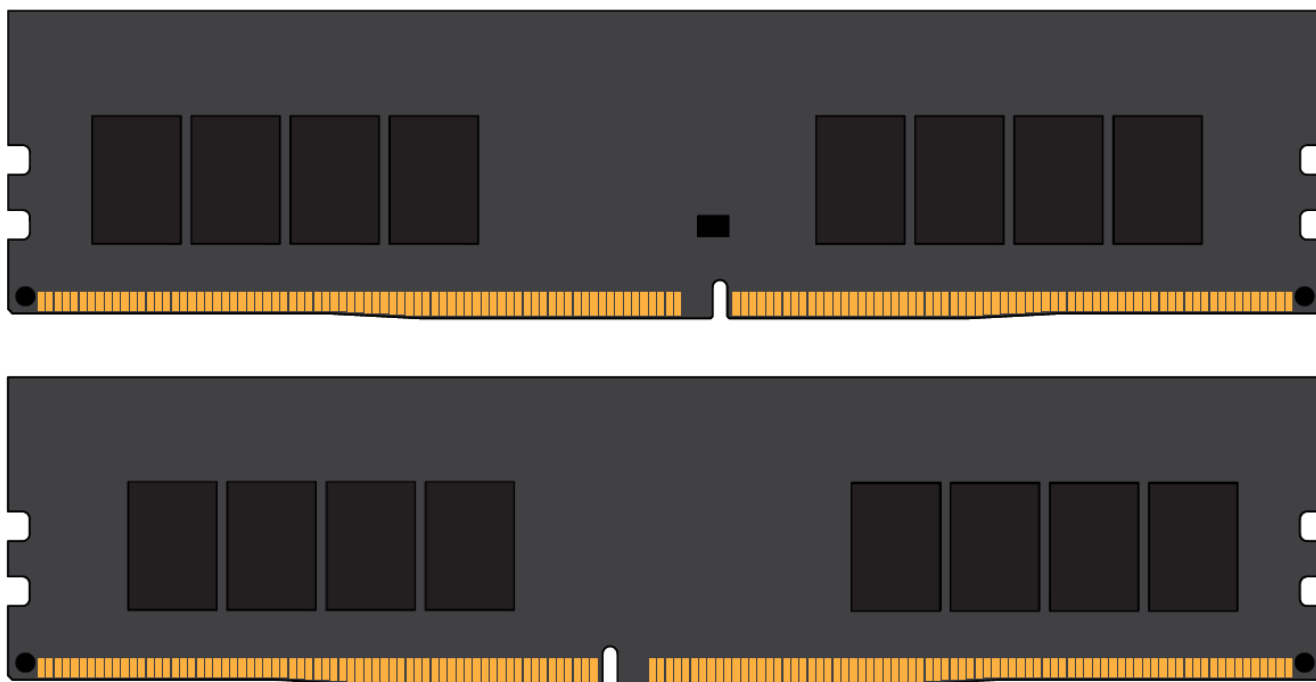
FEATURES

- 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 1.624" (41.24mm), w/heatsink

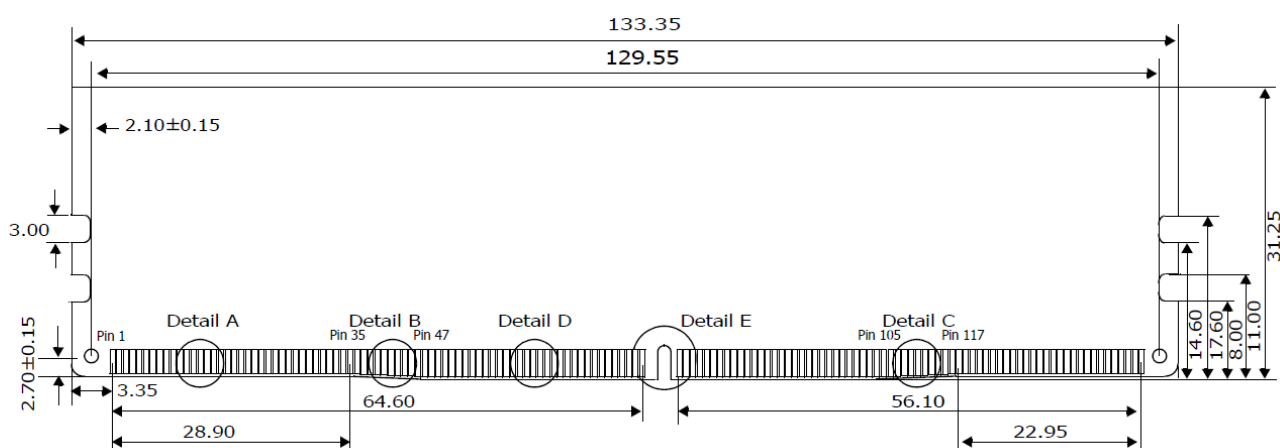
MODULE WITH HEAT SPREADER



MODULE DIMENSIONS



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



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Documents / Resources



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HX432C16FB3AK2 32 RAM Memory, HX432C16FB3AK2 32, RAM Memory

References

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