

## HX440C19PB3A/8

8GB 1G x 64-Bit

DDR4-4000 CL19 288-Pin DIMM



### DESCRIPTION

HyperX HX440C19PB3A/8 is a 1G x 64-bit (8GB) DDR4-4000 CL19 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 DDR4-4000 at a low latency timing of 19-21-21 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:

### XMP TIMING PARAMETERS

- JEDEC: DDR4-2400 CL17-17-17 @1.2V
- XMP Profile #1: DDR4-4000 CL19-21-21 @1.35V
- XMP Profile #2: DDR4-3600 CL17-18-18 @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.)
Maximum Operating Power	TBD W*
UL Rating	94 V - 0
Operating Temperature	0° C to +70° C
Storage Temperature	-40° C to +85° C

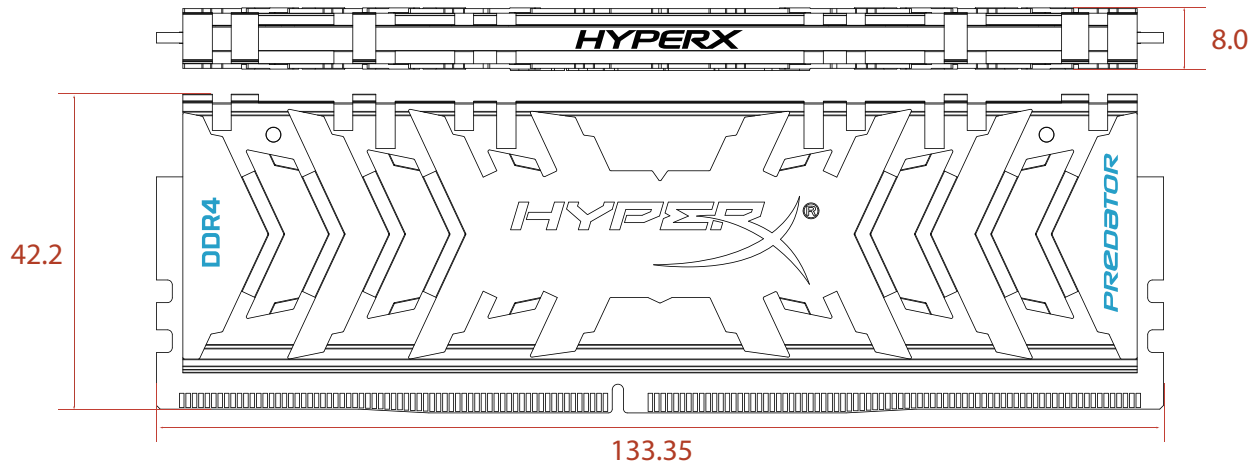
\*Power will vary depending on the SDRAM used.

### FEATURES

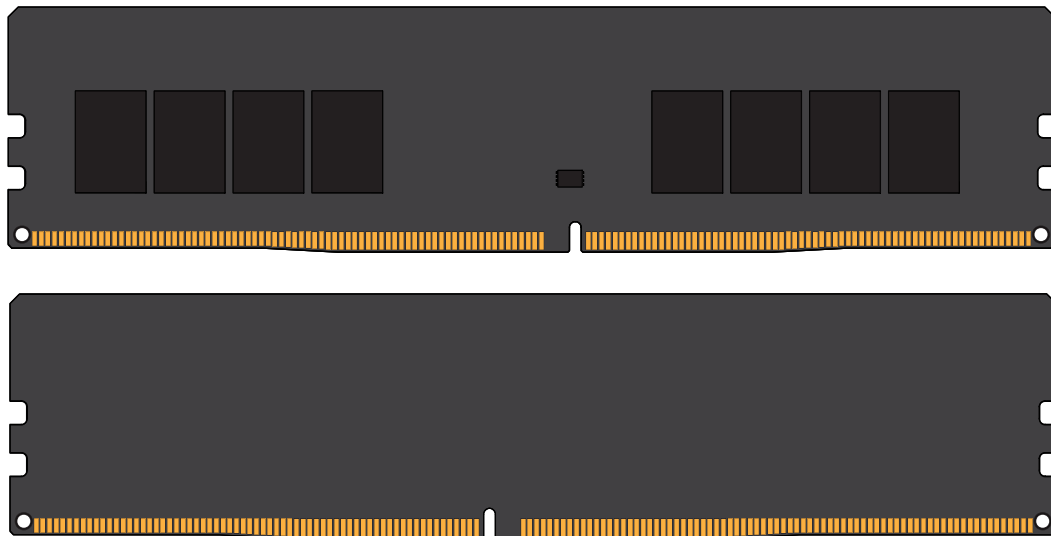
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.4V to 3.3V
- On-Die termination (ODT)
- 16 internal banks; 4 groups of 4 banks each
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- HyperX Infrared Sync working distance 18mm
- Factory preset RGB wave lighting effect
- Height 1.661" (42.20mm)

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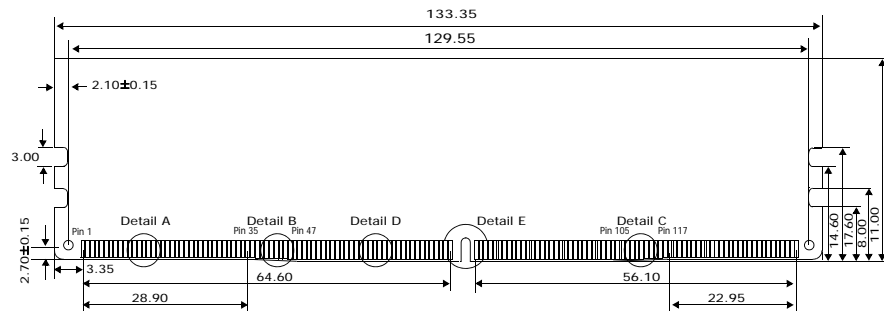
## MODULE WITH HEAT SPREADER



## MODULE DIMENSIONS



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



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