

## HX421S13IB/16

16GB 2G x 64-Bit DDR4-2133  
CL13 260-Pin SODIMM



### SPECIFICATIONS

CL(IDD)	13 cycles
Row Cycle Time (tRCmin)	46.5ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns (min.)
Row Active Time (tRASmin)	32.75ns (min.)
Maximum Operating Power	TBD W*
UL Rating	94 V - 0
Operating Temperature	0°C to 85°C
Storage Temperature	-55°C to +100°C

\*Power will vary depending on the SDRAM used.

### DESCRIPTION

HyperX HX421S13IB/16 is a 2G x 64-bit (16GB) DDR4-2133 CL13 SDRAM (Synchronous DRAM) 2Rx8, memory module, based on sixteen 1G x 8-bit DDR4 FBGA components. Each module supports Intel® Extreme Memory Profiles (Intel® XMP) 2.0. This module has been tested to run at DDR4-2133 at a low latency timing of 13-13-13 at 1.2V. Additional timing parameters are shown in the PnP Timing Parameters section below. The JEDEC standard electrical and mechanical specifications are as follows:

**Note:** The PnP feature offers a range of speed and timing options to support the widest variety of processors and chipsets. Your maximum speed will be determined by your BIOS.

### FEATURES

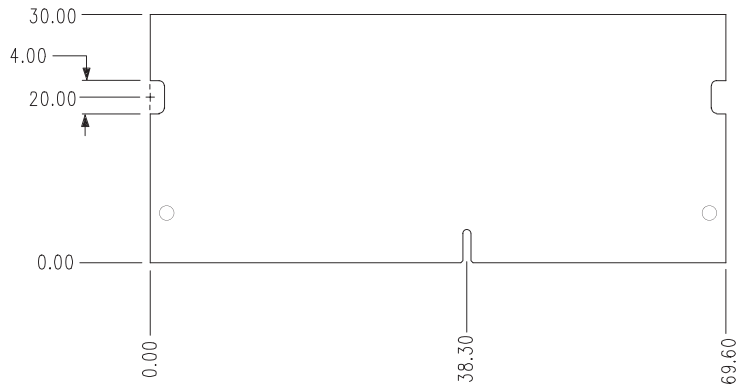
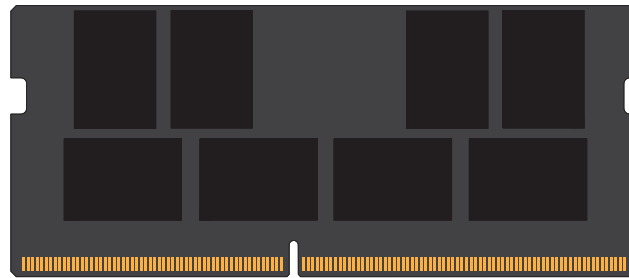
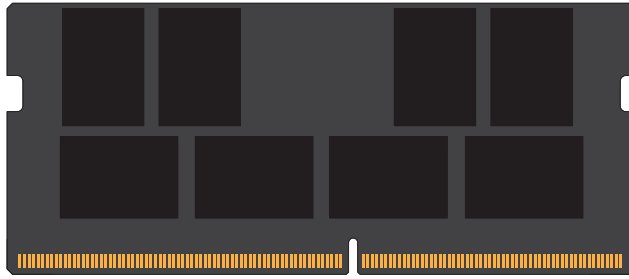
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP - 2.5V Typical
- VDDSPD = 2.25V to 3.6V
- On-Die termination (ODT)
- 16 internal banks; 4 groups of 4 banks each
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Height 1.18" (30.00mm)

### PnP JEDEC TIMING PARAMETERS:

- JEDEC/PnP: DDR4-2133 CL13-13-13 @1.2V
- XMP Profile #1: DDR4-2133 CL13-13-13 @1.2V

Continued >>

## MODULE DIMENSIONS



FOR MORE INFORMATION, GO TO [HYPERXGAMING.COM](http://HYPERXGAMING.COM)

All Kingston products are tested to meet our published specifications. Some motherboards or system configurations may not operate at the published HyperX 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.