

HX432S20IB2/8

8GB 1G x 64-Bit
DDR4-3200 CL20 260-Pin SODIMM



SPECIFICATIONS

CL(IDD)	20 cycles
Row Cycle Time (tRCmin)	45.75ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns (min.)
Row Active Time (tRASmin)	26.25ns (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 HX432S20IB2/8 is a 1G x 64-bit (8GB) DDR4-3200 CL20 SDRAM (Synchronous DRAM) 1Rx8, memory module, based on eight 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 DDR4-3200 at a low latency timing of 20-22-22 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 = 2.2V 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 1.18" (30.00mm)

PnP JEDEC TIMING PARAMETERS:

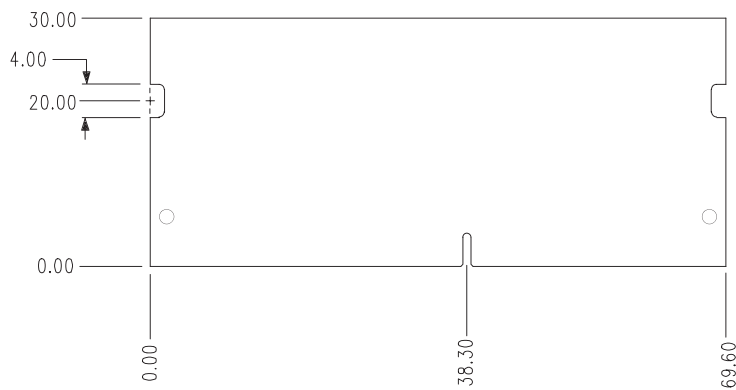
- JEDEC/PnP: DDR4-3200 CL20-22-22 @1.2V
- XMP Profile #1: DDR4-3200 CL20-22-22 @1.2V
- XMP Profile #2: DDR4-2933 CL17-19-19 @1.2V

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MODULE DIMENSIONS



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



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FOR MORE INFORMATION, GO TO 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.

HX432S20IB/16

16GB 2G x 64-Bit
DDR4-3200 CL20 260-Pin SODIMM



SPECIFICATIONS

CL(IDD)	20 cycles
Row Cycle Time (tRCmin)	45.75ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns (min.)
Row Active Time (tRASmin)	26.25ns (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 HX432S20IB/16 is a 2G x 64-bit (16GB) DDR4-3200 CL20 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 DDR4-3200 at a low latency timing of 20-22-22 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: HyperX DDR4 PnP memory will run in most DDR4 systems up to the speed allowed by the manufacturer's system BIOS. PnP cannot increase the system memory speed faster than is allowed by the manufacturer's BIOS.

FEATURES

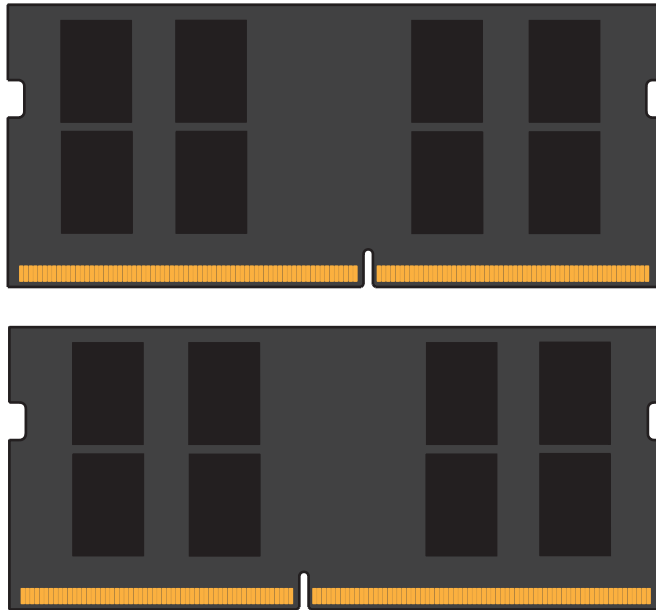
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.2V to 3.6V
- On-Die termination (ODT)
- 16 internal banks; 4 groups of 4 banks each
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Height 1.18" (30.00mm)

PnP JEDEC TIMING PARAMETERS:

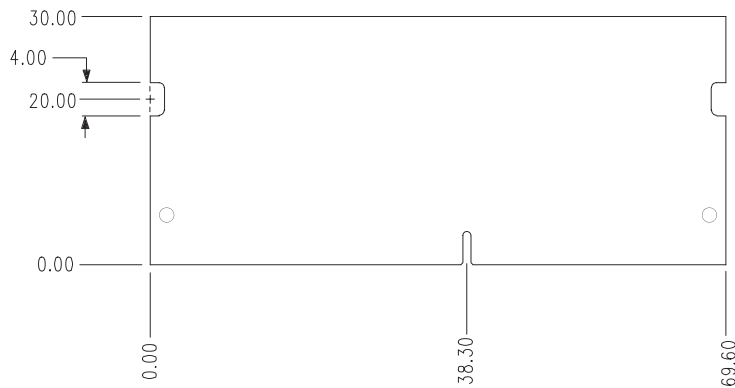
- JEDEC/PnP: DDR4-3200 CL20-22-22 @1.2V
- XMP Profile #1: DDR4-3200 CL20-22-22 @1.2V
- XMP Profile #2: DDR4-2933 CL17-19-19 @1.2V

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MODULE DIMENSIONS



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HX432S20IB/32

32GB 4G x 64-Bit
DDR4-3200 CL20 260-Pin SODIMM



SPECIFICATIONS

CL(IDD)	20 cycles
Row Cycle Time (tRCmin)	45.75ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	350ns (min.)
Row Active Time (tRASmin)	26.25ns (min.)
UL Rating	94 V - 0
Operating Temperature	0°C to 85°C
Storage Temperature	-55°C to +100°C

DESCRIPTION

HyperX HX432S20IB/32 is a 4G x 64-bit (32GB) DDR4-3200 CL20 SDRAM (Synchronous DRAM) 2Rx8, memory module, based on sixteen 2G 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 DDR4-3200 at a low latency timing of 20-22-22 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: HyperX DDR4 PnP memory will run in most DDR4 systems up to the speed allowed by the manufacturer's system BIOS. PnP cannot increase the system memory speed faster than is allowed by the manufacturer's BIOS.

FEATURES

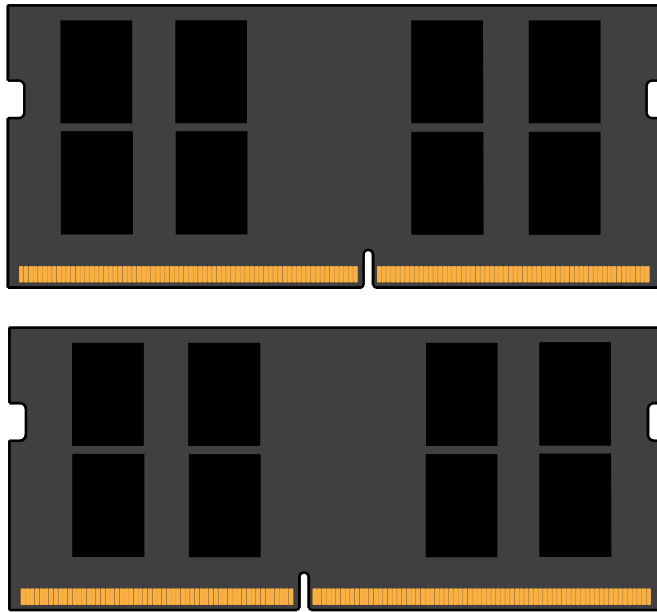
- Power Supply: VDD = 1.2V Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.2V to 3.6V
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- Height 1.18" (30.00mm)

PnP JEDEC TIMING PARAMETERS:

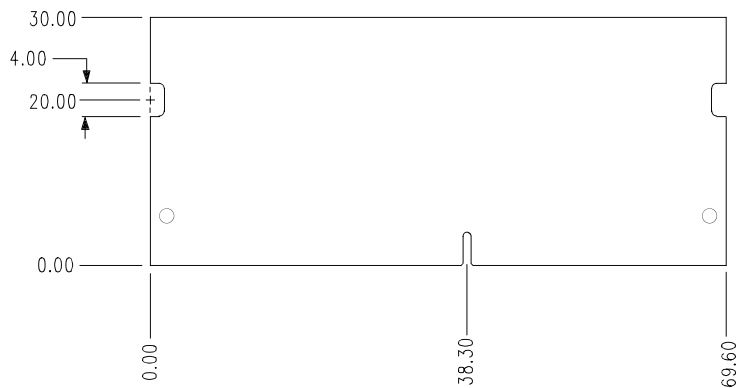
- JEDEC/PnP: DDR4-3200 CL20-22-22 @1.2V
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