HX424C12PBK4/32

32GB (8GB 1G x 64-Bit x 4 pcs.)
DDR4-2400 CL13 288-Pin DIMM

SPECIFICATIONS

CL(IDD)	15 cycles
Row Cycle Time (tRCmin)	46.5ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	260ns(min.)
Row Active Time (tRASmin)	33ns(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 HX424C12PBK4/32 is a kit of four 1G x 64-bit (8GB) DDR4-2400 CL12 SDRAM (Synchronous DRAM) 2Rx8, memory module, based on sixteen 512M 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 DDR4-2400 at a low latency timing of 12-13-13 at 1.35V. The SPDs are programmed to JEDEC standard latency DDR4-2133 timing of 15-15-15 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: DDR4-2133 CL15-15-15 @1.2V
- XMP Profile #1: DDR4-2400 CL12-13-13 @1.35V
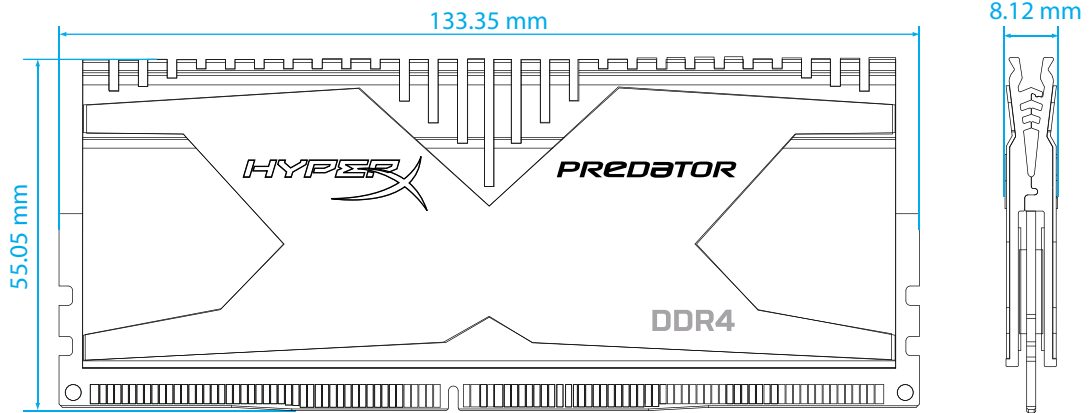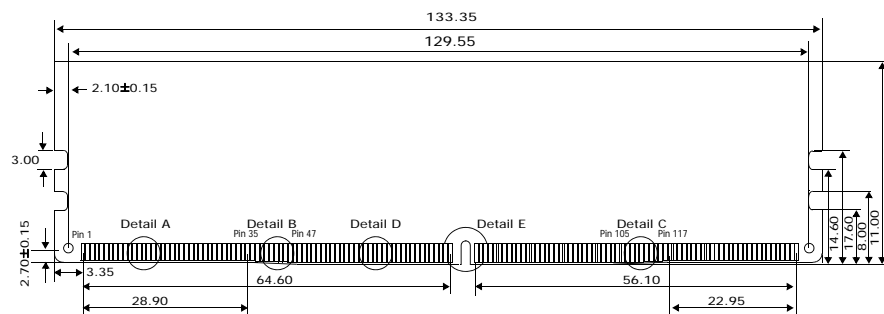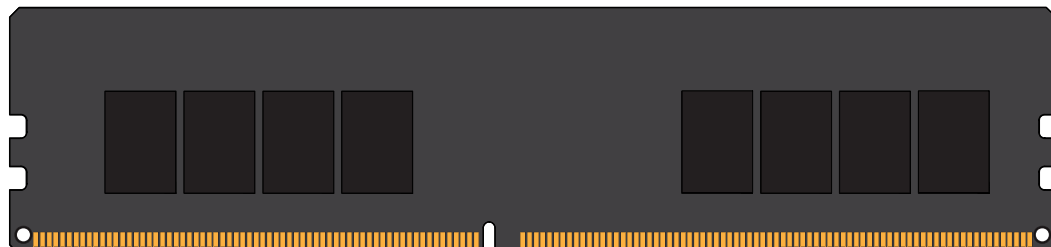- XMP Profile #2: DDR4-2133 CL13-13-13 @1.2V

FEATURES

- Power Supply: VDD=1.2V Typical
- VDDQ = 1.2V Typical
- VPP - 2.5V Typical
- VDDSPD=2.2V to 3.6V
- Nominal and dynamic on-die termination (ODT) for data, strobe, and mask signals
- Low-power auto self refresh (LPASR)
- Data bus inversion (DBI) for data bus
- On-die VREFDQ generation and calibration
- Dual-rank
- On-board I2 serial presence-detect (SPD) EEPROM
- 16 internal banks; 4 groups of 4 banks each
- Fixed burst chop (BC) of 4 and burst length (BL) of 8 via the mode register set (MRS)
- Selectable BC4 or BL8 on-the-fly (OTF)
- Fly-by topology
- Terminated control command and address bus
- Height 2.167" (55.05mm), w/heatsink

MODULE WITH HEAT SPREADER
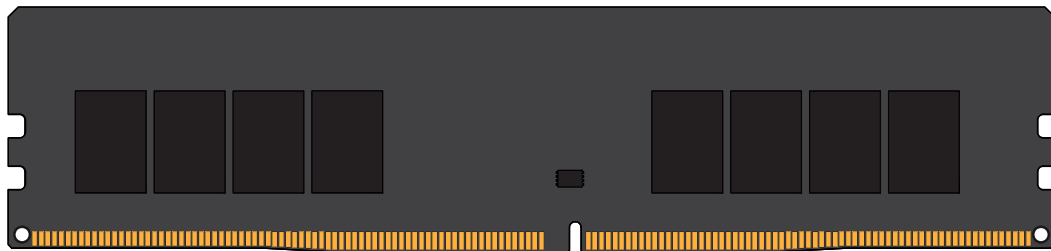
133.35 mm

8.12 mm

55.05 mm

HYPERX PREDATOR

DDR4

MODULE DIMENSIONS

133.35

129.55

2.10±0.15

3.00

31.25

2.70±0.15

Pin 1   Detail A   Detail B   Detail D   Detail E   Detail C
                          Pin 35   Pin 47   Pin 105   Pin 117

3.35   14.60
                                                                                        17.60
                                                                                        8.00
                                                                                        11.00

28.90   64.60   56.10

                                                                        22.95

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