

Memory Module Specifications

KSM48E40BD8KI-32HA

32GB 2Rx8 4G x 72-Bit

PC5-4800 CL40 288-Pin DIMM

DESCRIPTION

Kingston's KSM48E40BD8KI-32HA is a 4G x 72-bit (32GB) DDR5-4800 CL40 SDRAM (Synchronous DRAM), 2Rx8, ECC, memory module, based on twenty 2G x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR5-4800 timing of 40-39-39 at 1.1V. Each 288-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

FEATURES

- Power Supply: VDD = 1.1V Typical
- VDDQ = 1.1V Typical
- VPP = 1.8V Typical
- VDDSPD = 1.8V to 2.0V
- On-Die ECC
- x72 ECC (x36, 2 independent I/O sub channels)
- 32 internal banks
- Hard/Soft Post Package Repair
- Sideband access with I3C/I2C
- PCB: Height 1.23" (31.25mm)
- RoHS Compliant and Halogen-Free

SPECIFICATIONS

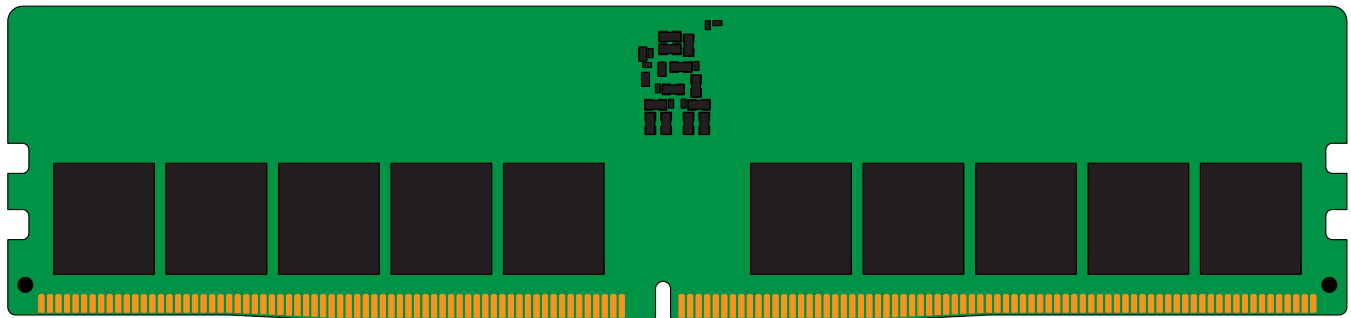
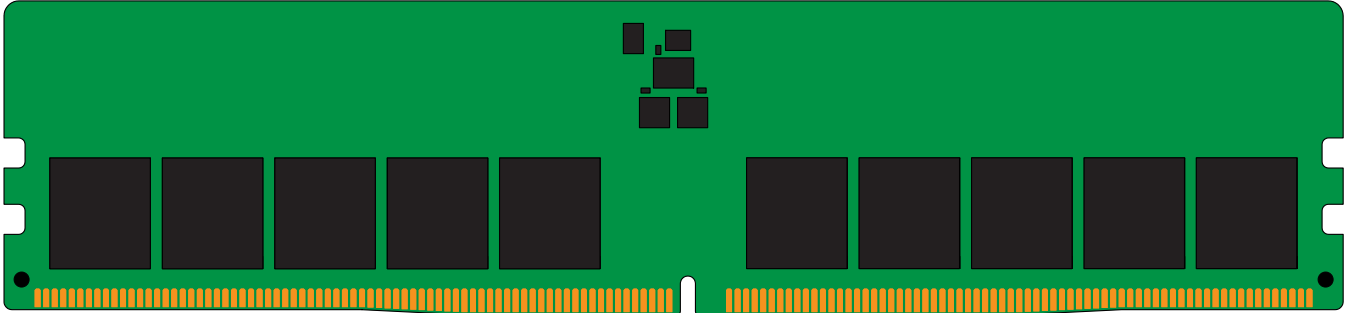
| | |
|--|-------------------|
| CL(IDD) | 40 cycles |
| Row Cycle Time (tRCmin) | 48ns(min.) |
| Refresh to Active/Refresh Command Time (tRFCmin) | 295ns(min.) |
| Row Active Time (tRASmin) | 32ns(min.) |
| Row Precharge Time (tRPmin) | 16ns(min.) |
| UL Rating | 94 V - 0 |
| Operating Temperature | 0° C to +95° C |
| Storage Temperature | -55° C to +100° C |

Module Assembly

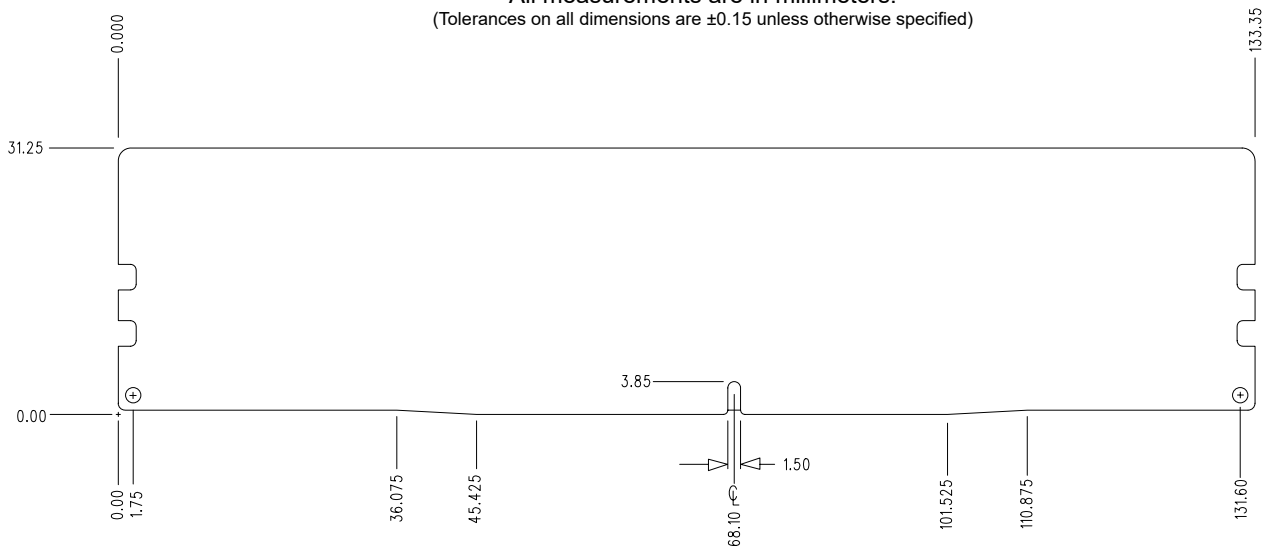
| |
|----------------------------|
| DRAM: Hynix (A-DIE) |
|----------------------------|

Continued >>

MODULE DIMENSIONS



All measurements are in millimeters.
(Tolerances on all dimensions are ± 0.15 unless otherwise specified)



The product images shown are for illustration purposes only and may not be an exact representation of the product. Kingston reserves the right to change any information at anytime without notice.

| Revision No. | History | Release Date | Remark | Editor | Approved |
|--------------|-----------------|--------------|--------|----------|----------|
| A | Initial Release | 01/10/24 | | David Y. | Henry N. |

*Products and specifications discussed herein are for evaluation and reference purposes only and are subject to change without notice. All information discussed herein is provided on an “as is” basis, without warranties of any kind.