

Memory Module Specifications

KSM56R46BD4-64HA

64GB 2Rx4 8G x 80-Bit

PC5-5600 CL46 Registered EC8 288-Pin DIMM

DESCRIPTION

Kingston's KSM56R46BD4-64HA is a 8G x 80-bit (64GB) DDR5-5600 CL46 SDRAM (Synchronous DRAM), 2Rx4, ECC, memory module, based on forty 4G x 4-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR5-5600 timing of 46-45-45 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
- x80 ECC (x40, 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

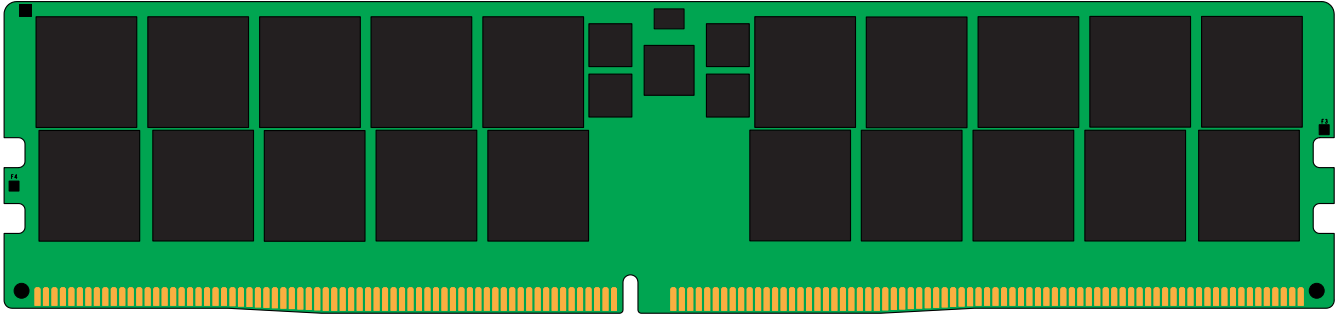
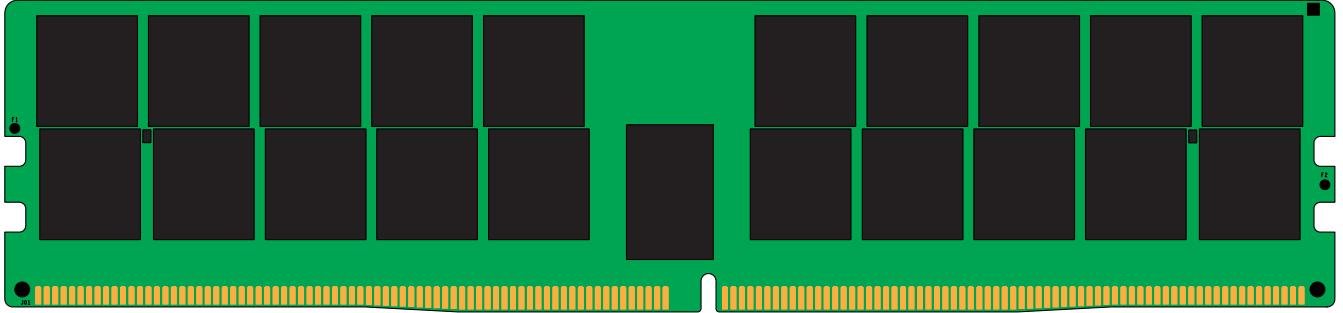
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|--------------------------------------------------|-------------------|
| CL(IDD) | 46 cycles |
| Row Cycle Time (tRCmin) | 48ns(min.) |
| Refresh to Active/Refresh Command Time (tRFCmin) | 295ns(min.) |
| Row Active Time (tRASmin) | 32ns(min.) |
| 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

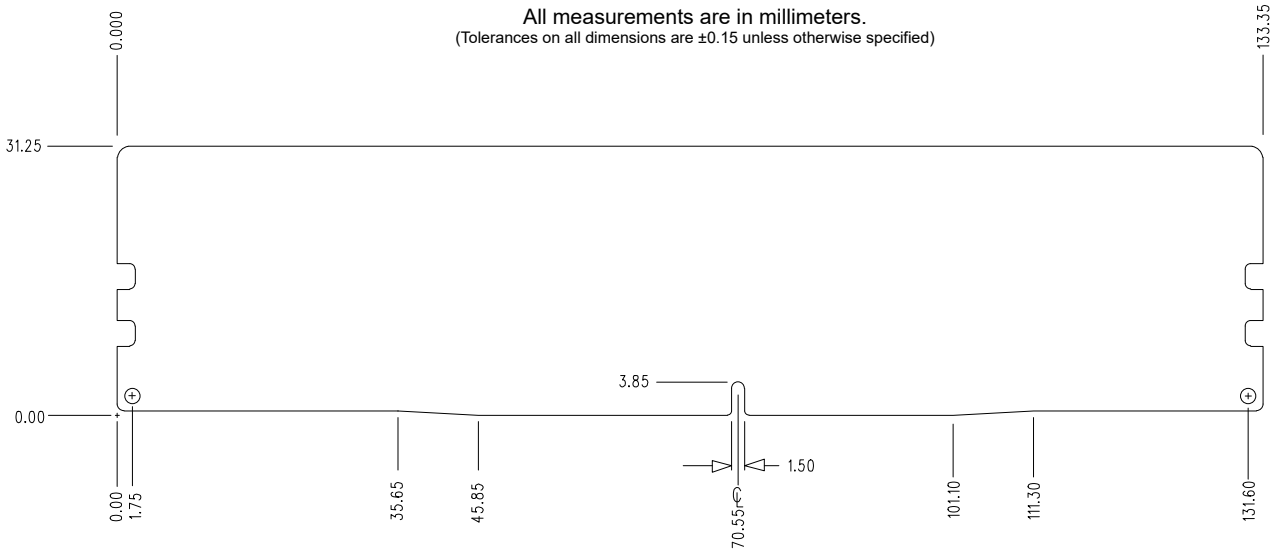
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| DRAM: Hynix (A-DIE) |
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MODULE DIMENSIONS



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



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| Revision No. | History | Release Date | Remark | Editor | Approved |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|--------|----------|----------|
| A | Initial Release | 03/21/24 | | 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. | | | | | |