

Memory Module Specifications

KSM56R46BS8PMI-16MDI

16GB 1Rx8 2G x 80-Bit

PC5-5600 CL46 Registered EC8 288-Pin DIMM

DESCRIPTION

Kingston's KSM56R46BS8PMI-16MDI is a 2G x 80-bit (16GB) DDR5-5600 CL46 SDRAM (Synchronous DRAM), 1Rx8, ECC, memory module, based on ten 2G x 8-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

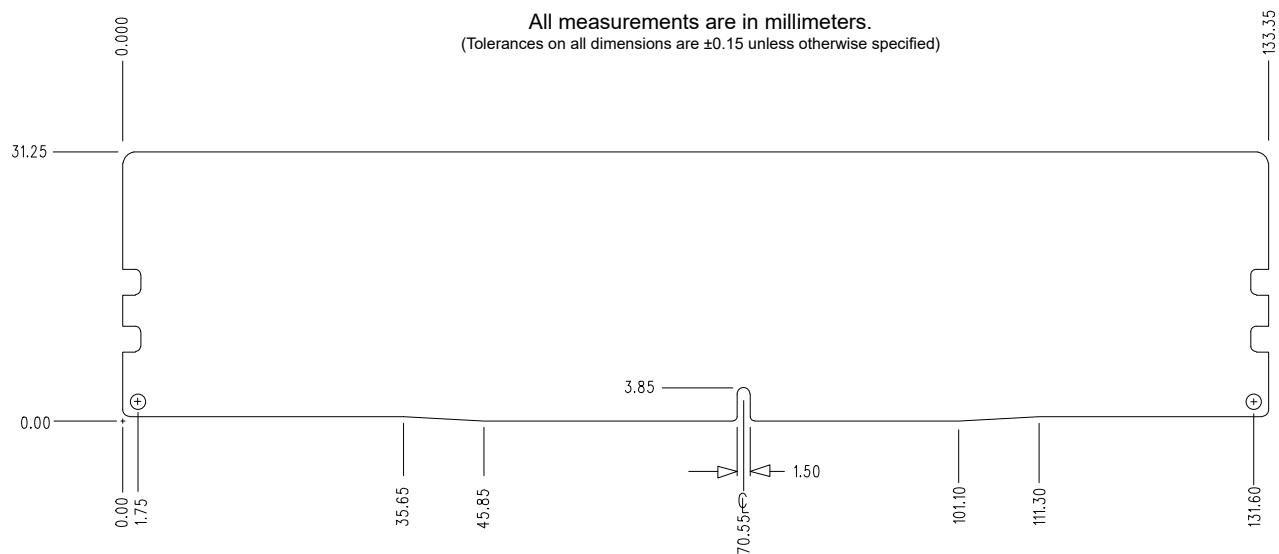
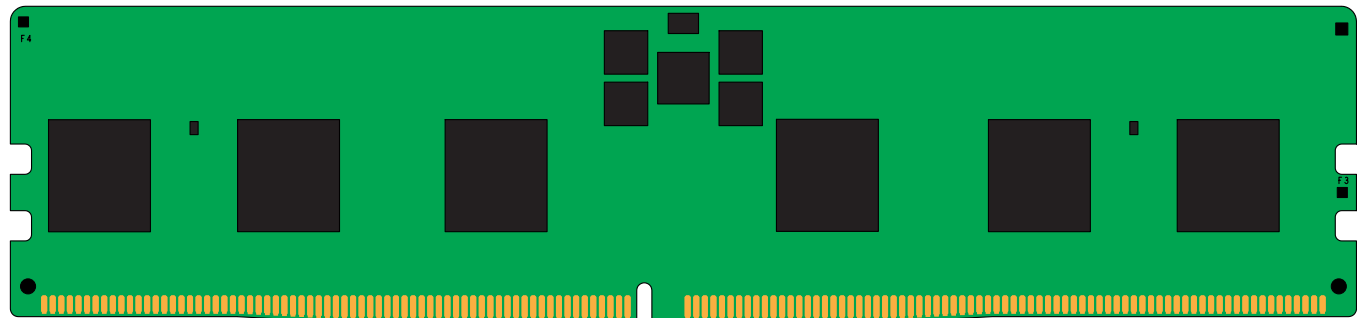
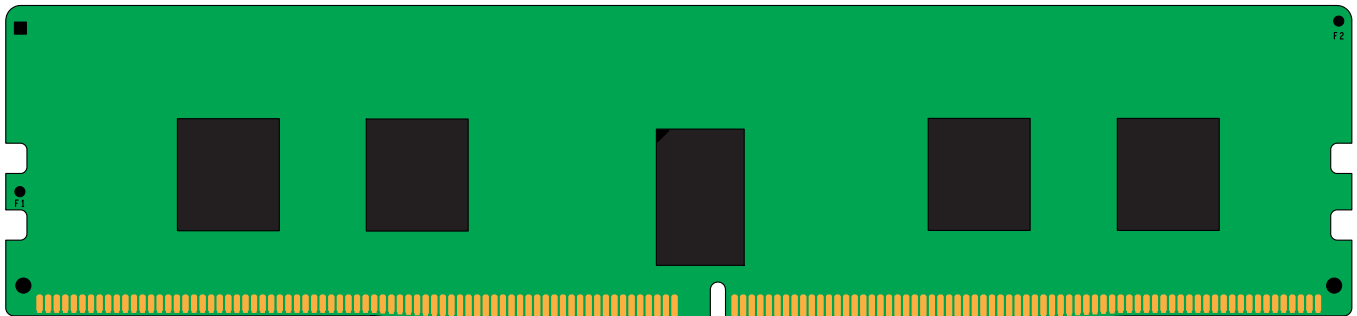
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| CL(IDD) | 46 cycles |
| Row Cycle Time (tRCmin) | 48ns(min.) |
| Refresh to Active/Refresh Command Time (tRFCmin) | 295ns(min.) |
| Row Active Time (tRASmin) | 32ns(min.) |
| Row Precharge Time (tRPmin) | 16ns(min.) |
| UL Rating | 94 V - 0 |
| Operating Temperature | 0° C to +95° C |
| Storage Temperature | -55° C to +100° C |

Module Assembly

DRAM: Micron (D-Die)
RCD: IDT/Renesas
PMIC: MPS
SPD Hub: Montage
TS: IDT/Renesas

Continued >>

MODULE DIMENSIONS



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