

Memory Module Specifications

KF556R28RBE2K4-128

128GB (32GB 2Rx8 4G x 80-Bit x 4 pcs.)

PC5-5600 CL28 Registered EC8 288-Pin DIMM



DEFAULT 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

DESCRIPTION

Kingston FURY KF556R28RBE2K4-128 is a kit of four 4G x 80-bit (32GB) DDR5-5600 CL28 SDRAM (Synchronous DRAM) 2Rx8, ECC memory module, based on twenty 2G x 8-bit FBGA components per module. The module supports AMD® EXPO v1.1 and Intel® Extreme Memory Profiles (Intel® XMP) 3.0. Total kit capacity is 128GB. Each module has been tested to run at DDR5-5600 at a low latency timing of 28-34-34 at 1.35V. The SPDs are programmed to JEDEC standard latency DDR5-4800 timing of 40-39-39 at 1.1V. Each 288-pin DIMM uses gold contact fingers. The JEDEC standard electrical and mechanical specifications are as follows:

DEFAULT 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

FACTORY TIMING PARAMETERS

- Default (JEDEC): DDR5-4800 CL40-39-39 @1.1V
- EXPO Profile #0: DDR5-5600 CL28-34-34 @1.35V
- EXPO Profile #1: DDR5-5200 CL36-40-40 @1.25V
- XMP Profile #1: DDR5-5600 CL28-34-34 @1.35V
- XMP Profile #2: DDR5-5200 CL36-40-40 @1.25V

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Revision No.	History	Release Date	Remark	Editor	Approved
A	Initial Release	01/23/24		David Y.	Alex S.

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