DDR5 Tall EC8 MRDIMM (Multiplexed Rank)
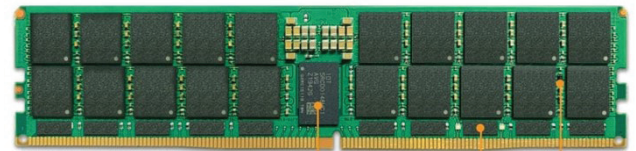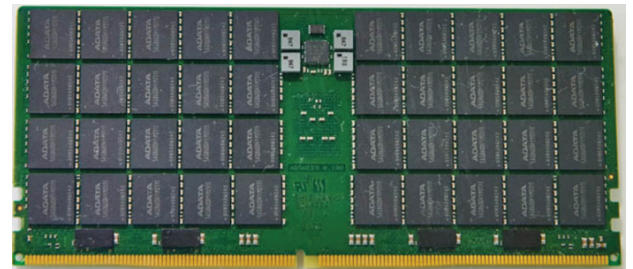
Reliable, Trusted, Proven

Product

- JEDEC Standard Tall MRDIMM

- Speed; DDR5-5600 (will migrate to 6400)

- With 8-bit ECC

- Densities;
    - 128GB with 16Gb 4Gx4
    - 96GB with 24Gb 6Gx4
    - 64GB with 16GB 4Gx4
    - 32GB with 16GB 2Gx8

- DRAM placements; 80

- Height; 55.00mm

- Other critical components; 2 PMICs (Power Management IC), 10 MDBs (Memory Data Buffers (not shown), 1 RCD (Register Clock Driver)

Benefits

- Double bandwidth - combines two DDR5 RDIMMs at 4,400 MT/s, the output results in 8,800 MT/s

- Simultaneous access to both ranks

- Multiplexing multiple ranks on a DIMM through a new RCD and DB can provide scalable high BW solution which is aligned to DDR5 DRAM frequency and capacity cadence

- Cost-effective SDP DRAMs (Single Die Package)

Applications

- High density and bandwidth applications; AI & ML, IMDB

- High performance computing applications; sci-entific modeling, fintech, mathematics

- For 2U, 3U and 4U server and storage chassis

DDR5 MRDIMM Ordering Information

288-PIN - DDR5 MRDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
SRBG8RM5844-SM	256GB	56.90	32Gb x80	8Gx4	8800MT/s	1.1V	0°C to +70°C
SRAG8RM5844-SM	128GB	56.90	16Gb x80	8Gx4	8800MT/s	1.1V	0°C to +70°C
STAG8RM5444-HB	128GB	56.90	16Gb x80	4Gx4	8800MT/s	1.1V	0°C to +70°C
ST8G8RM5444-HB	64GB	31.25	8Gb x80	4Gx4	8800MT/s	1.1V	0°C to +70°C
ST4G8RM5284-HB	32GB	31.25	4Gb x80	2Gx8	8800MT/s	1.1V	0°C to +70°C

* Reflects Operating Ambient Temperature

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