

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



For more information, please visit: www.smartm.com

*Product images are for promotional purposes only. Labels may not be representative of the actual product.

EMEA:

Headquarters/North America:

T: (+1) 800-956-7627 • T: (+1) 510-623-1231 F: (+1) 510-623-1434 • E: info@smartm.com Latin America:

T: (+55) 11 4417-7200 • E: sales.br@smartm.com

Asia/Pacific:

T: (+65) 6678-7670 • E: sales.asia@smartm.com

Customer Service:

T: (+1) 510-623-1231 • E: customers@smartm.com

T: (+44) 0 7826-064-745 • E: sales.euro@smartm.com

© 2025 SMART Modular Technologies, a Penguin Solutions brand. The stylized "S" in conjunction with "SMART", as well as "SMART Modular Technologies" are registered trademarks of SMART Modular Technologies. All other trademarks the property of the respective owners. These materials are provided by SMART Modular Technologies as a service to its customers and may only be used for informational purposes. 03.18.25/DDR5TallMRDIMM/Rev.8