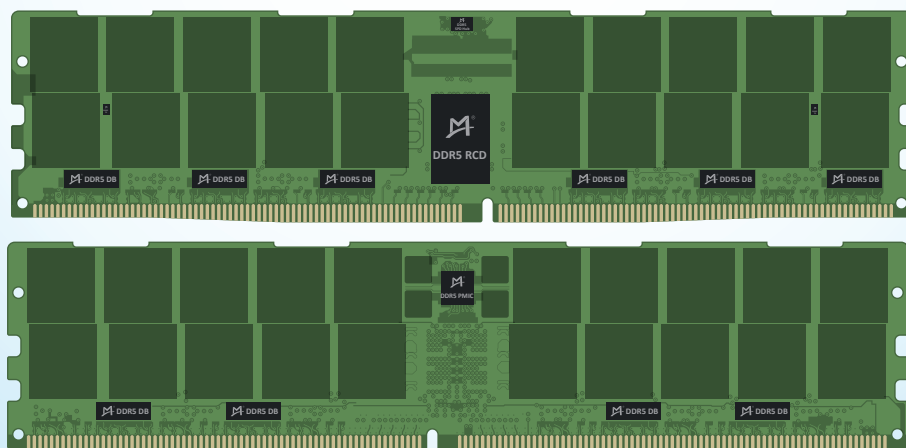


Memory Interface Products Selection Guide

Introduction

Montage Technology provides industry-leading DDR4 to DDR5 memory interface products for the demanding cloud computing and data center markets. Our robust product portfolio includes the critical components required by the memory modules, like (Multiplexed Rank) Registering Clock Driver (MRCD/RCD), (Multiplexed Rank) Data Buffer (MDB/DB), Clock Driver (CKD), SPD EEPROM with Hub (SPD Hub), Temperature Sensor (TS) and Power Management IC (PMIC). These products are designed for a variety of memory modules such as MRDIMM/MCRDIMM, RDIMM, LRDIMM, NVDIMM, UDIMM, SODIMM, CUDIMM, CSODIMM, CAMM, etc., enabling high-speed, large-capacity, high-reliability and low-power memory solutions for high-performance servers, desktops and laptops.

Application



Note: The image above uses DDR5 LRDIMM as an example to showcase the application of our DDR5 memory interface chips. To represent a DDR5 MRDIMM / MCRDIMM configuration, simply replace the RCD and DB with MRCD and MDB respectively.



Selection Table

Technology	Part No.	Description	Maximum Speed	Typical Application
DDR5	M88MR5RCD01	Gen1 DDR5 Multiplexed Rank Registering Clock Driver (MRCD)	DDR5-8800	DDR5 MRDIMM / MCRDIMM
	M88MR5DB01	Gen1 DDR5 Multiplexed Rank Data Buffer (MDB)	DDR5-8800	DDR5 MRDIMM / MCRDIMM
	M88DR5CK01	Gen1 DDR5 Clock Driver (CKD)	DDR5-7200	DDR5 CUDIMM / SODIMM / CAMM
	M88DR5RCD04	Gen4 DDR5 Registering Clock Driver (RCD)	DDR5-7200	DDR5 RDIMM
	M88DR5RCD03	Gen3 DDR5 Registering Clock Driver (RCD)	DDR5-6400	DDR5 RDIMM
	M88DR5RCD02	Gen2 DDR5 Registering Clock Driver (RCD)	DDR5-5600	DDR5 RDIMM
	M88DR5RCD01	Gen1 DDR5 Registering Clock Driver (RCD)	DDR5-4800	DDR5 RDIMM / LRDIMM
	M88DR5DB01	Gen1 DDR5 Data Buffer (DB)	DDR5-4800	DDR5 LRDIMM
	M88P5010/M88P5000	DDR5 Power Management IC (PMIC)	/	DDR5 RDIMM / LRDIMM
	M88SPD5118	DDR5 SPD EEPROM with Hub (SPD Hub)	/	DDR5 MRDIMM / MCRDIMM / RDIMM / LRDIMM / UDIMM / SODIMM / CUDIMM / CSODIMM / CAMM / LPCAMM
	M88TS5110	DDR5 Temperature Sensor (TS)	/	DDR5 MRDIMM / MCRDIMM / RDIMM / LRDIMM
DDR4	M88DR4RCD02P	Gen2 Plus DDR4 Registering Clock Driver (RCD)	DDR4-3200	DDR4 RDIMM / LRDIMM / NVDIMM
	M88DR4DB02P	Gen2 Plus DDR4 Data Buffer (DB)	DDR4-3200	DDR4 LRDIMM
	M88NR4DB02P	Gen2 Plus DDR4 Data Buffer (DB) with NVDIMM Feature	DDR4-3200	DDR4 NVDIMM
	M88DDR4RCD02	Gen2 DDR4 Registering Clock Driver (RCD)	DDR4-2666	DDR4 RDIMM / LRDIMM
	M88DDR4DB02	Gen2 DDR4 Data Buffer (DB)	DDR4-2666	DDR4 LRDIMM
	M88DDR4RCD01	Gen1 DDR4 Registering Clock Driver (RCD)	DDR4-2400	DDR4 RDIMM / LRDIMM
	M88DDR4DB01	Gen1 DDR4 Data Buffer (DB)	DDR4-2400	DDR4 LRDIMM

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