

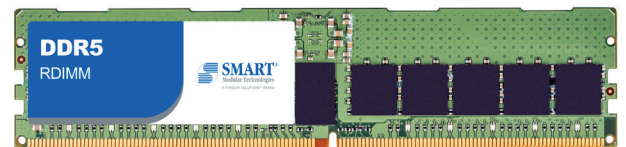
DDR5 Memory Modules

DDR5 is designed to meet increasing needs for efficient performance in a wide range of applications including cloud computing, and data center processing. The DDR5 memory provides developers with twice the performance (4800 to 6400 MT/s) and improved power efficiency in comparison to DDR4 by using an on-DIMM 12V voltage regulator (PMIC) and 1.1 I/O Voltage.

DDR5 also improves scaling performance without degrading channel efficiency at higher speeds. This increased performance is achieved by doubling the burst length to BL16 and bank-count from 16 to 32. For increased reliability and efficiency, a DDR5 DIMM utilizes two 40-bit fully independent sub-channels on the same module. DDR5 memory modules have a maximum die density of 64Gb and hence are capable of having a much higher DIMM storage capacity.

Features

- Command/Address and Control bus is double data rate
- Generates CRC checksum in READ data frames
- Default burst length increased to BL16 – Single burst = 64B of data
- Integrated Temperature Sensor (MR4)
- DDR5 DRAM contain 256 mode registers



Applications

- High Performance Computing
- Cloud Computing and Storage
- Enterprise Networking

Benefits

- Higher Bandwidth
- Lower Power
- Better power efficiency and scalability
- Higher memory efficiency, lower latency
- Higher capacity DIMMs

DDR5 Ordering Information

288-PIN - DDR5 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
SR6G8RD5388HMV	48GB	18.75	4G x80	3Gx8	5600MT/s	1.1V	0°C to +70°C
SR4G8RD5288HAV	32GB	18.75	4G x80	2Gx8	5600MT/s	1.1V	0°C to +70°C
SR4G8RD5288MDV	32GB	18.75	4G x80	2Gx8	5600MT/s	1.1V	0°C to +70°C
SR4G8RD5285HAV	32GB	18.75	4G x80	2Gx8	4800MT/s	1.1V	0°C to +70°C

* Reflects Operating Ambient Temperature

DDR5 Ordering Information

262-PIN - DDR5 Non-ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
SR6G6SO5385HM	48GB	30.00	6G x64	3Gx8	4800MT/s	1.1V	0°C to +70°C
SR3G6SO5385HM	24GB	30.00	3G x64	3Gx8	4800MT/s	1.1V	0°C to +70°C
262-PIN - DDR5 ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
SR8G7SO5488SM	64GB	30.00	8G x72	4Gx8	5600MT/s	1.1V	0°C to +70°C
SRI6G7SO5388HM	48GB	30.00	6G x72	3Gx8	5600MT/s	1.1V	-40°C to +85°C
SR6G7SO5388HM	48GB	30.00	6G x72	3Gx8	5600MT/s	1.1V	0°C to +70°C
SR6G7SO5385HM	48GB	30.00	6G x72	3Gx8	4800MT/s	1.1V	0°C to +70°C
SR4G7SO5288HA	32GB	30.00	4G x72	2Gx8	5600MT/s	1.1V	0°C to +70°C
SRI2G7SO5288HA	16GB	30.00	2G x72	2Gx8	5600MT/s	1.1V	-40°C to +85°C
SR2G7SO5288HA	16GB	30.00	2G x72	2Gx8	5600MT/s	1.1V	0°C to +70°C
288-PIN - DDR5 ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
SR6G7UD5388HM	48GB	31.25	6G x72	3Gx8	5600MT/s	1.1V	0°C to +70°C
SRI6G7UD5385HM	48GB	31.25	6G x72	3Gx8	4800MT/s	1.1V	-40°C to +85°C
SR6G7UD5385MC	48GB	31.25	6G x72	3Gx8	4800MT/s	1.1V	0°C to +70°C
SR6G7UD5385HM	48GB	31.25	6G x72	3Gx8	4800MT/s	1.1V	0°C to +70°C
SRI2G7UD5285SB	16GB	31.25	2G x72	2Gx8	4800MT/s	1.1V	-40°C to +85°C
288-PIN - DDR5 ECC VLP UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
SR8G7UD5488SMV	64GB	18.75	8G x72	4Gx8	5600MT/s	1.1V	0°C to +70°C
SR6G7UD5388HMV	48GB	18.75	6G x72	3Gx8	5600MT/s	1.1V	0°C to +70°C
SR6G7UD5385HMV	48GB	18.75	6G x72	3Gx8	4800MT/s	1.1V	0°C to +70°C
SR4G7UD5288MDV	32GB	18.75	4G x72	2Gx8	5600MT/s	1.1V	0°C to +70°C
SR4G7UD5288HAV	32GB	18.75	4G x72	2Gx8	5600MT/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.

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