



Memory for Data Centers

SMART's Memory Solutions Provide Critical Competitive Advantages

CXLTM Memory expansion for In Memory Database Applications



Increases memory bandwidth and capacity

- Large amounts of memory are used through the CXL interface eliminating conventional server bottlenecks.
- Eliminates stranded memory by dynamically configuring memory to those workloads that need it.
- CXL E3.S Memory Module (XMM) and Add in Card (AIC) options

<https://www.smartm.com/product/advanced-memory/cxl-high-speed-cpu-interconnect>

Zefr Memory for In Memory Database Applications



Significantly reduce downtime by using highly reliable memory modules

- Comprehensive 5-part test process; temperature, speed, load, system, and time
- Zefr testing emulates the most strenuous use cases
- Proven long-term reliability

<https://www.smtreports.com/zefr/>

High Density Memory - RDIMMs and LRDIMMs

Deliver massive computing power for HPC, AI, grid and cloud workloads

- Ideal for data centers requiring large amounts of server memory
- Up to 256GB DDR4 RDIMMs and LRDIMMs
- Up to 256GB DDR5 RDIMMs

www.smartm.com/rdimms

CXLTM Enablement – Delivering New Tiers of Performance

New interconnect technology for high-speed, low-latency cache coherent access to data via serial-attached memory modules (XMMs, AICs)

- Enables new solution architectures for delivering higher levels of performance (high-bandwidth, low latency)
- SMART is providing enablement support for OEMs interested in CXL

<https://www.smartm.com/product/advanced-memory/cxl-high-speed-cpu-interconnect>

SMTL - SMART Memory Test Lab



Extensive memory qualification services, capabilities and experience

- Minimize qualification costs and resources
- Save engineering time and resources
- Shorten product launch cycles
- Use SMART engineering resources to help solve problems
- Maintain an uninterrupted supply chain of qualified memory

<https://www.smartm.com/product/advanced-memory/cxl-high-speed-cpu-interconnect>

DDR5 Ordering Information

288-PIN - DDR5 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
STZ8G8RD5445-HA	64GB	31.25	8Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
STZ8G8RD5445-MA	64GB	31.25	8Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
ST8G8RD5445-HA	64GB	31.25	8Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
ST8G8RD5445-MA	64GB	31.25	8Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
ST6G8RD5645-HM	48GB	31.25	6Gb x80	6Gx4	4800MT/s	1.1V	0°C to +70°C
ST4G8RD5448-HA	32GB	31.25	4Gb x80	4Gx4	5600MT/s	1.1V	0°C to +70°C
SRB4G8RD5445-SB	32GB	31.25	4Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
SRZ4G8RD5445-SB	32GB	31.25	4Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
ST4G8RD5445-MA	32GB	31.25	4Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
SR4G8RD5285MA	32GB	31.25	4Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C
SR4G8RD5285SB	32GB	31.25	4Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C
ST3G8RD5385-HM	24GB	31.25	3Gb x80	3Gx8	4800MT/s	1.1V	0°C to +70°C
ST2G8RD5288-HA	16GB	31.25	2Gb x80	2Gx8	5600MT/s	1.1V	0°C to +70°C
SR2G8RD5285-SB	16GB	31.25	2Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C

DDR4 Ordering Information

288-PIN - DDR4 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
ST3277RD440465-HJ	256GB	31.25	32Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST3277RD440465-SM	256GB	31.25	32Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
SR3277RD440444-SM1	256GB	31.25	32Gb x72	4Gx4	2933MT/s	1.2V	0°C to +70°C
ST3277RD440444-SM	256GB	31.25	32Gb x72	4Gx4	2933MT/s	1.2V	0°C to +70°C
ST1637RD440465-SM	128GB	31.25	16Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST1637RD440444-SM1	128GB	31.25	16Gb x72	4Gx4	2933MT/s	1.2V	0°C to +70°C
SRI8197RD440425-SC	64GB	31.25	8Gb x72	4Gx4	3200MT/s	1.2V	-40°C to +85°C
ST8197RD440425-MF	64GB	31.25	8Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST8197RD440425-SC	64GB	31.25	8Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST8197RD440425HC	64GB	31.25	8Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST4097RD440425-HC	32GB	31.25	4Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST4097RD420825SC	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4097RD420425-HE	32GB	31.25	4Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
ST4097RD420493SC	32GB	31.25	4Gb x72	2Gx4	2666MT/s	1.2V	0°C to +70°C
ST2047RD420825MF	16GB	31.25	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD420425-HE	16GB	31.25	2Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
SRZ2047RD410825-SE	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD410814SC	16GB	31.25	2Gb x72	1Gx8	2933MT/s	1.2V	0°C to +70°C
ST2047RD420493SC	16GB	31.25	2Gb x72	2Gx4	2666MT/s	1.2V	0°C to +70°C
ST2047RD410893SC	16GB	31.25	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027RD410893SC	8GB	31.25	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027RD451893SF	8GB	31.25	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST5127RD451893MF	4GB	31.25	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST5127RD451893SF	4GB	31.25	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C

DDR4 Ordering Information Continued

288-PIN - DDR4 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST2047RD420493SCV	16GB	18.75	2Gb x72	2Gx4	2666MT/s	1.2V	0°C to +70°C
ST2047RD410893SCV	16GB	18.75	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027RD410825SCV	8GB	18.75	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027RD410893SCV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027RD451893SFV	8GB	18.75	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST5127RD451893SFV	4GB	18.75	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C

84-PIN - DDR4 DDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SR8197DE440425HC	64GB	64.55	8Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
SR4097DE420425HE	32GB	64.55	4Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
SR2047DE420425HE	16GB	64.55	2Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C

288-PIN - DDR4 Value LRDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
ST3277LR440444-SM	256GB	31.25	32Gb x72	4Gx4	2933MT/s	1.2V	0°C to +70°C
ST1637LR440414-SM1	128GB	31.25	16Gb x72	4Gx4	2933MT/s	1.2V	0°C to +70°C
ST1637LR420402-HM	128GB	31.25	16Gb x72	2Gx4	2400MT/s	1.2V	0°C to +70°C



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

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