



# Memory for Data Centers

SMART's Memory Solutions Provide Critical Competitive Advantages

## Memory expansion for in-memory database applications utilizing CXL<sup>®</sup> Technology

Increases memory bandwidth and capacity

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

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

## Zefr ZDIMMs for AI and 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.smartm.com/product/list/zefr-zdimm>

## High Density Memory - RDIMMs

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
- Up to 256GB DDR5 RDIMMs

[www.smartm.com/rdimms](http://www.smartm.com/rdimms)

## Delivering New Tiers of Performance by enabling CXL

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

- Enables new solution architectures and form factors 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/technology/SMTL>

# Product Summary Overview

## DRAM for Data Center Applications

Technology	Module Type	Speeds	Densities
DDR5	ZDIMM	DDR5-4800/5600	16GB - 128GB
	RDIMM		16GB - 256GB
DDR4	ZDIMM	DDR4-2933/3200	16GB - 64GB
	RDIMM		16GB - 256GB
	LRDIMM		128GB

Individual part nos. can be found on [www.smartm.com](http://www.smartm.com)



For more information, please visit: [www.smartm.com](http://www.smartm.com)

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

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