

SMART DRAM for Edge Computing

Features & Benefits

- **High Density & Performance:** Modules available in capacities up to 256GB and speeds up to DDR5-6400, enabling storage and real-time processing of large edge-generated datasets.
- **Form Factor Flexibility:** A range of module types (RDIMMs, VLP RDIMMs, VLP ECC UDIMMs, ECC UDIMMs and ECC SODIMMs) to fit diverse hardware requirements and space blade constraints.
- **Industrial Grade Reliability:** Options such as Zefr high reliability memory, industrial temperature ratings, conformal coating, and underfill for robust operation in harsh environments.
- **Long-Term Support:** Commitment to extended product availability and support for mission-critical edge deployments.
- **Cost Effectiveness:** Utilization of mainstream components with added comprehensive testing, balancing performance, power, and cost for scalable edge solutions.
- **Wide Application Coverage:** Suitable for autonomous vehicles, smart infrastructure, healthcare, security, agriculture, predictive maintenance, and edge video analytics, among others.

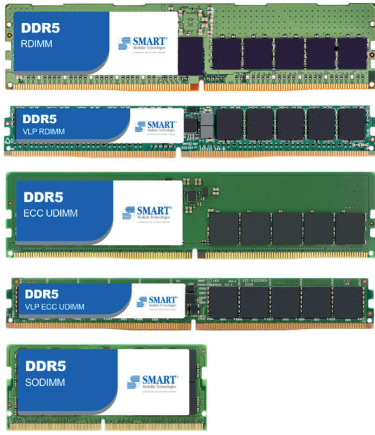
These features ensure that SMART memory solutions provide the performance, reliability, and flexibility required for successful edge computing deployments across a wide range of industries.

Problem Statement

Edge computing environments generate and process vast amounts of data locally, demanding memory solutions that can handle high data density and real-time processing without frequent offloading to the cloud. These environments often operate in harsh conditions, requiring memory modules that are not only high-performing and reliable, but also flexible in form factor and cost-effective to ensure broad deployment across diverse applications such as autonomous vehicles, traffic management, healthcare, security, agriculture, and more.

Solution Overview

SMART Modular Technologies addresses these challenges with a comprehensive portfolio of memory solutions specifically designed for edge computing. Our offerings include high-density, high-speed DRAM modules—DDR5 RDIMMs, VLP RDIMMs, VLP ECC UDIMMs, ECC UDIMMs, and ECC SODIMMs, —tailored for both industrial and enterprise edge applications. These modules are engineered and tested to deliver reliable performance in demanding environments, support blade computing architectures, and provide long-term service and support. SMART leverages off-the-shelf mainstream components enhanced with rigorous testing to ensure both reliability and cost efficiency.



Products shown represent a sampling of SMART DIMMs for industrial applications

Product Summary Overview

DDR5 Memory for Edge Computing			
Technology	Module Type	Speeds	Densities
DDR5	RDIMM	DDR5-5600/6400	16G - 256GB
	VLP RDIMM		32GB - 64GB
	ECC UDIMM		64GB
	VLP ECC UDIMM		32GB - 64GB
	ECC SODIMM		16GB - 64GB

Individual part nos. can be found on www.smartm.com

Other Options

- Zefr Memory, Industrial Temperature Memory, Conformal Coating, Underfil



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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