



# SMART DRAM for Rugged and Industrial Applications

## Product Summary Overview

### Critical Needs for Rugged and Industrial Applications

- Operation in wide temperature ranges
- Protection from harsh environmental factors such as moisture, sulfur, and salt
- Reliable operation under rugged shock and vibration conditions (i.e., defense, transportation)
- Reliability for maintaining long-term uninterrupted service
- Wide lineup of form factors for specialized computing enclosures

### Why SMART DRAM for Rugged and Industrial Applications?

- Industrial and extended temperature support
- Best-fit module form factors (i.e., Standard DIMM, VLP DIMM, SODIMM, Mini-DIMM)
- High quality and reliability
- Long term service and support

### Special features to support Industrial applications



100% high and low temperature testing



Conformal coating for moisture and environmental protection



Component underfill for vibration resistance



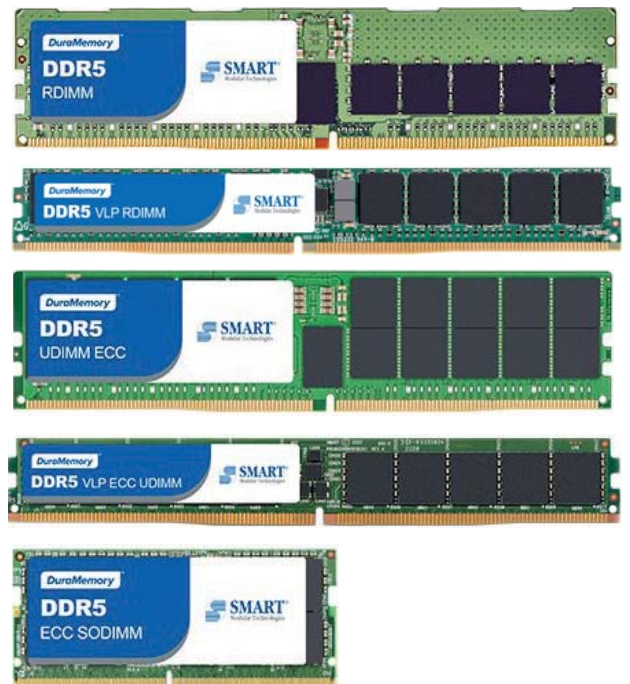
Selective DRAM component sourcing for high altitude applications



Anti-sulfur passive components for environmental protection



Module retention clips for high shock and vibration applications



Products shown represent a sampling of SMART DIMMs for Rugged and Industrial applications

### Applications

- Automated manufacturing systems
- Industrial PCs
- Medical devices
- Oil, gas and drilling
- COTS
- Industrial blade servers

## Product Summary Overview

### DRAM for Rugged and Industrial Applications

Technology	Module Type	Speeds	Densities
DDR5	RDIMM	DDR5-4800/5600	16GB - 256GB
	VLP RDIMM		32GB
	Non-ECC UDIMM		8GB - 32GB
	ECC UDIMM		16GB - 48GB
	ECC VLP UDIMM		16GB - 48GB
	Non-ECC SODIMM		8GB - 48GB
	ECC SODIMM		16GB - 48GB
DDR4	RDIMM	DDR4-3200/4800/5600	8GB - 256GB
	Non-ECC UDIMM		4GB - 32GB
	ECC UDIMM		16GB - 32GB
	ECC ULP UDIMM		32GB
	Non-ECC SODIMM		4GB - 32GB
	ECC SODIMM		8GB - 32GB
	LRDIMM		128GB
	MIP		2GB - 8GB

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)

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