

SMART MEMORY SOLUTIONS



LEADING-EDGE
HIGH PERFORMANCE
MEMORY MODULES



SMART MODULAR TECHNOLOGIES

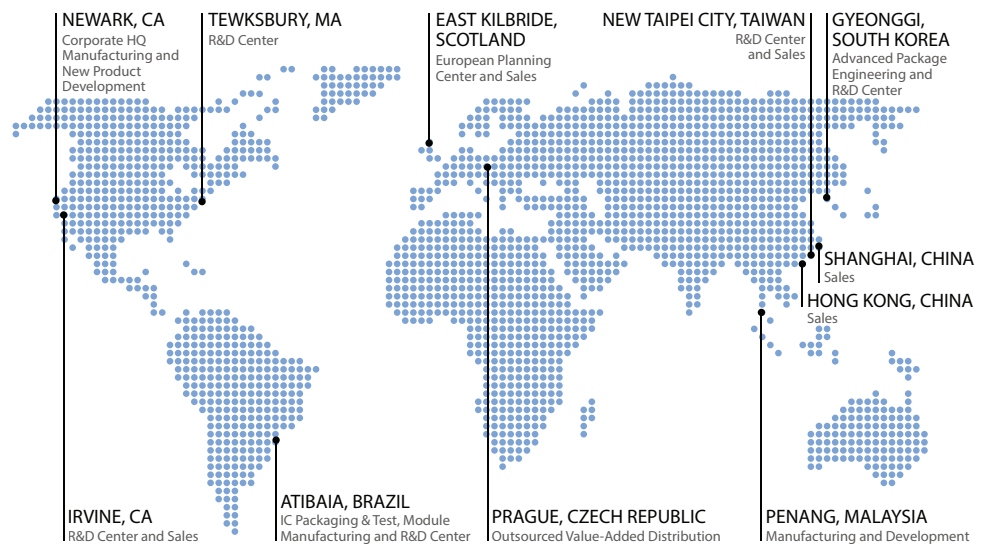
INDUSTRY EXPERIENCE DESIGN EXPERTISE

SMART is a leading independent designer, manufacturer and supplier of electronic subsystems to OEMs engaged in the computer, industrial, networking, telecommunications, aerospace and defense markets. Taking innovations from the design stage through manufacturing and delivery, SMART has developed a comprehensive memory product line that includes DRAM, SRAM, and Flash memory in various form factors. SMART's presence in the U.S., Europe, Asia, and Latin America enables it to provide its customers with proven expertise in international logistics, asset management, and supply-chain management worldwide.

SMART supports a wide variety of industry-standard and custom DRAM Memory Modules. The DRAM technologies that are supported range from leading-edge DDR4 to legacy FPM and EDO. The module form factors include standard height and very low profile DIMMs, SO-DIMMs, and Mini-DIMMs in registered, unbuffered, and ECC configurations.

GLOBAL FOOTPRINT

DESIGN
MANUFACTURING
TEST
LOGISTICS
SALES

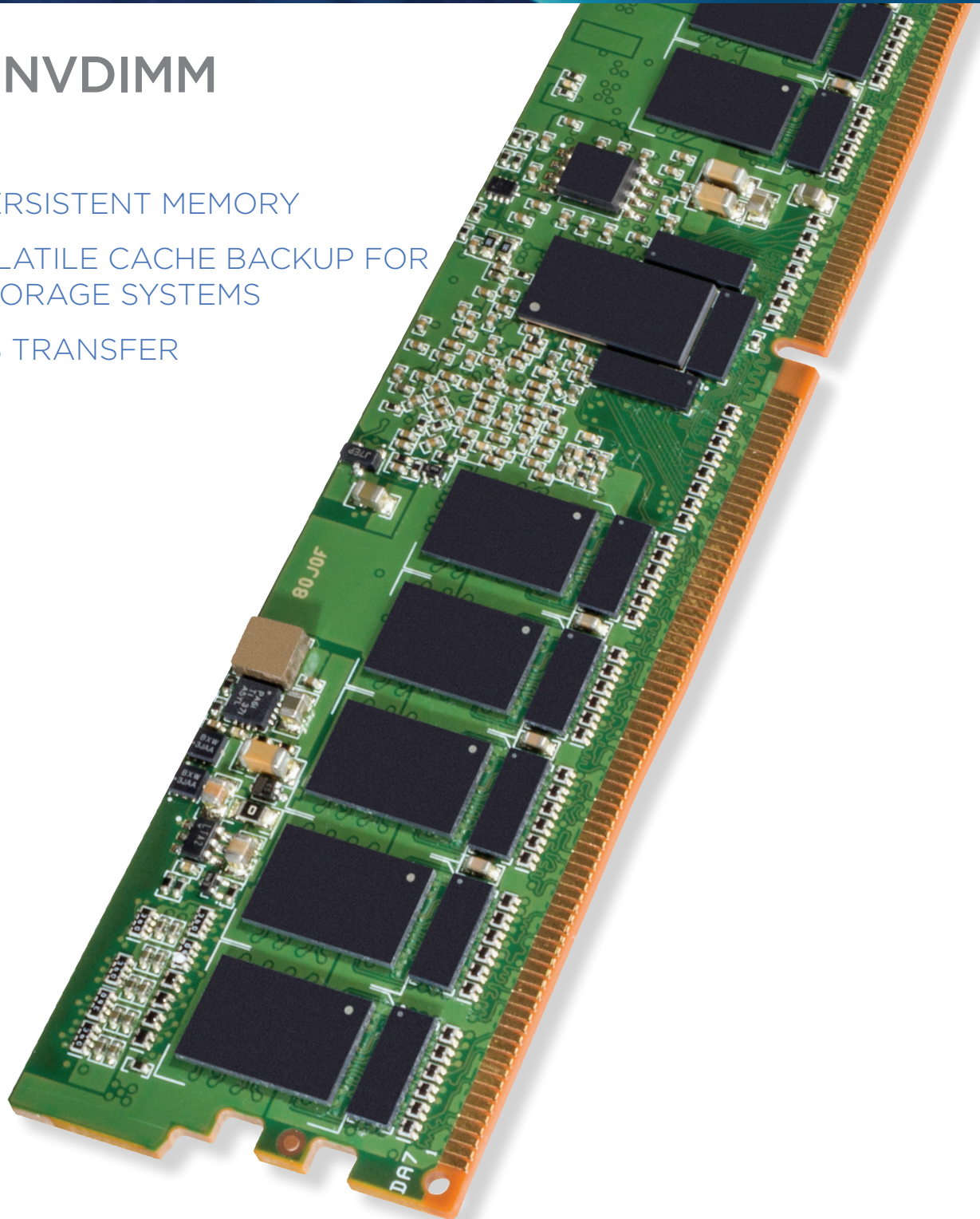


DRAM MODULES

TECHNOLOGY	CONFIGURATION	DENSITY	SMART PART NUMBER	DRAM	VLP OPTION
DDR4	NVDIMM	4GB	SH5127NR451872xx	512Mx8	No
		8GB	SH1027NR410472xx	1Gx4	No
		16GB	SH2047NR420472xx	2Gx4	No
	RDIMM	4GB	SH5127RD451872xx	512Mx8	Yes
		8GB	SH1027RD410472xx	1Gx4	Yes
		16GB	SH2047RD410472xx	1Gx4	Yes
		32GB	SH4097RD420472xx	2Gx4	Yes
	UDIMM	4GB	SH5127UD451851xx	512Mx8	No
		8GB	SH1027UD451872xx	512Mx8	No
		16GB	SH2047UD410872xx	1Gx8	No
	Mini RDIMM	8GB	SH1027MR451851xx	512Mx8	No
		16GB	SH2047MR410872xx	1Gx8	No
	Mini UDIMM	8GB	SH1027MU451872xx	512Mx8	Yes
		16GB	SH2047MU410872xx	1Gx8	Yes
	SOUDIMM	4GB	SH5127SO451872xx	512Mx8	No
		8GB	SH1027SO451872xx	512Mx8	No
		16GB	SH2047SO410872xx	1Gx8	No
DDR3	NVDIMM	4GB	SH5127NR351893xx	512Mx8	Yes
		8GB	SH1027NV351816xx	512Mx8	No
	Mini NVDIMM	2GB	SH2567MN325816xx	256Mx8	No
	RDIMM	2GB	SH2567RV325816xx	256Mx8	Yes
		4GB	SH5127RV325816xx	256Mx8	Yes
		8GB	SH1027RV310416xx	1Gx4	Yes
		16GB	SH2047RD310438xx	1Gx4	Yes
		32GB	SH4097RV310493xx	1G x4	Yes
	UDIMM	2GB	SH2567UV325816xx	256Mx8	Yes
		4GB	SH5127UV325816xx	256Mx8	Yes
		8GB	SH1027UV351816xx	512Mx8	Yes
	Mini RDIMM	2GB	SH2567MV325816xx	256Mx8	Yes
		8GB	SH1027MV351816xx	512Mx8	Yes
		16GB	SH2047MV351893xx	512Mx8	Yes
	Mini UDIMM	2GB	SH2567ML325816xx	256Mx8	Yes
		4GB	SH5127ML325816xx	256Mx8	Yes
		8GB	SH1027ML351816xx	512Mx8	Yes
	MIP	2GB	SHI2566MP321616xx	256Mx16	No
	SODIMM	2GB	SH2566SV325816xx	256Mx8	No
		4GB	SHI5126SO325816xx	256Mx8	No
		8GB	SHI1026SV351816xx	512Mx8	No
	SORDIMM	2GB	SH2567SL325816xx	256Mx8	No
		4GB	SH5127SL325816xx	256Mx8	No
		8GB	SH1027SL351816xx	512Mx8	No
	SOUDIMM	2GB	SH2567SV325816xx	256Mx8	No
		4GB	SH5127SV325816xx	256Mx8	No
		8GB	SH1027SV351816xx	512Mx8	No
	LRDIMM	32GB	SH4097LV310416xx	1Gx4	No
		64GB	SH8197LR310472Sxxx	1Gx4	No
	XRDIMM	2GB	SH2567XR312816xx	128Mx8	No
		8GB	SH1027XR351816xx	512Mx8	No

DDR4 NVDIMM

- FULL PERSISTENT MEMORY
- NONVOLATILE CACHE BACKUP FOR RAID STORAGE SYSTEMS
- <10GB/S TRANSFER



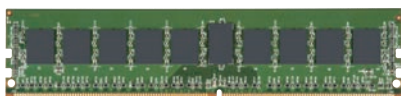
SMART's DDR4 NVDIMMs combine nonvolatile memory functionality with the latest DDR4 DRAM technology to provide a persistent memory solution all while improving application performance and data integrity in server and storage environments.

SMART's DDR4-2133 NVDIMMs feature proprietary SafeStor™ technology, the engine which initiates backup and restore operations upon command from the host controller. SMART's NVDIMMs operate as a JEDEC standard DDR4 RDIMM during normal operation.

DDR4

The Next Generation
is Here!

RDIMM



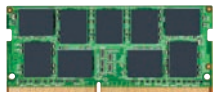
VLP RDIMM



VLP MINI UDIMM



SODIMM



More EFFICIENT

More SPEED

More DENSITY

DRAM PRODUCT LINE

SMART supports a wide variety of industry-standard and custom DRAM memory modules. The DRAM technologies that are supported range from leading-edge DDR4 to legacy products.

RDIMM



VLP RDIMM



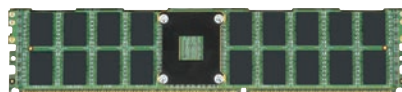
VLP UDIMM



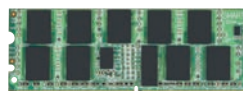
FBDIMM



LRDIMM



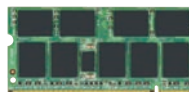
Mini RDIMM



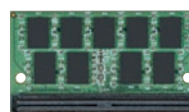
VLP Mini RDIMM



SODIMM



XRDIMM

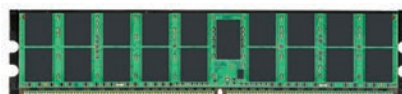


MIP



COOL FLEX

RDIMM



VLP RDIMM



SODIMM



NVDIMM

NVDIMM



VLP NVDIMM



CUSTOM PRODUCTS

SMART has a long history of partnering with customers to satisfy their specific design needs. With extensive industry and design expertise and global manufacturing capabilities, SMART offers a unique combination of advantages that can support customers' unique designs from conception to manufacturing and test. This allows SMART to efficiently and reliably tailor products to meet particular customer needs. For more information, please email customers@smartm.com.

SERVICES

SMART built its reputation by providing proven technology and quality products to the most demanding OEMs around the world. SMART backs these products with outstanding services and expertise in design, manufacturing, test, and logistical support. OEMs can be confident that SMART products will perform to the highest degree of reliability and compatibility, as well as meet all system requirements and OEM specifications. More information on SMART can be obtained at www.smartm.com.

Key Competitive Advantages

- Inventory management of volatile commodity parts
- Established strategic alliances with major semiconductor manufacturers
- Broad custom design and packaging capabilities
- Value-added engineering
- Custom testing capabilities
- Comprehensive pre- and post-sale technical support
- Conformal coating, stacking and component underfill for enhanced ruggedization

SMART Modular Technologies excels in designing, manufacturing, testing, and rapidly delivering both standard and custom modular technologies to OEMs around the world.



Design

SMART views design as the customer's path to market advantage. By working in partnership with its customers, SMART is able to deliver the most technically advanced products available.



Test

SMART's test procedures are designed to enable customers to be confident in dock-to-stock operation. Formalized, precise operational controls, SPC, and strong quality audit procedures allow SMART's OEM customers to eliminate incoming test with confidence. SMART's Enterprise Grade test option provides unmatched reliability.



Manufacturing

SMART offers localized, cost-efficient manufacturing services from consigned to turnkey manufacturing, all backed by 100% test using the industry's most advanced testing equipment.



Logistics

SMART sets itself apart from the competition through logistic services tailored to meet specific customers' needs. Services offered include procurement, inventory control, retail and bulk packaging, and drop-ship delivery.

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