

SMART DRAM Memory for Storage Applications

Reliable, Trusted, Proven

Why SMART for Storage?

SMART's memory for storage is designed to support a variety of needs specific to storage applications. These include system acceleration using persistent memory, high-density memory for surveillance and data acquisition, and Very Low Profile for storage blades.

Service and Support:

- SMART Modular's engineering team provides pre-sale and post-sale technical assistance for system configuration, technical support and failure analysis
- SMART Modular's professional, worldwide sales organization uses a consultative sales approach, provides excellent service and is backed with speedy RMA support for on-time delivery
- SMART Modular provides system testing and qualification support through SMART Memory Test Labs (SMTL)

Value

Because of SMART's >\$1B buying power, long-term supplier relationships and flexible sourcing, it passes on its savings to provide the lowest costs and shortest lead-times.



DDR4 NVDIMM

- High-speed Persistent Memory for system acceleration
- 16GB, 32GB - Fits standard 288-pin DIMM socket
- During normal operation, NVDIMM will function as a standard RDIMM module



DDR5 and DDR5 RDIMM

- High Density RDIMM up to 256GB
- JEDEC Standard
- High speed data rates up to 3.2 Gbps for DDR4 and 5.8 Gbps for DDR5



DDR4 and DDR5 VLP DIMM

- Ideal for storage blades with height restrictions
- Up to 64GB for DDR4 RDIMM and 32GB for UDIMM,
- Up to 32GB for DDR5 RDIMM and UDIMM
- High speed data rates up to 3.2 Gbps for DDR4 and 5.8 Gbps for DDR5

DDR5 Ordering Information

288-PIN - DDR5 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SRBG8RD544H-SB	256GB	31.25	32Gb x80	16Gx4	5600MT/s	1.1V	0°C to +70°C
STAG8RD544H-HA	128GB	31.25	16Gb x80	8Gx4	5600MT/s	1.1V	0°C to +70°C
SRAG8RD5846-SB	128GB	31.25	16Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
STHG8RD5645-HM	96GB	31.25	12Gb x80	6Gx4	4800MT/s	1.1V	0°C to +70°C
ST8G8RD5448-HA	64GB	31.25	8Gb x80	4Gx4	5600MT/s	1.1V	0°C to +70°C
SRB8G8RD5445-SB	64GB	31.25	8Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
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
SRI8G8RD5445-SB	64GB	31.25	8Gb x80	4Gx4	4800MT/s	1.1V	-40°C to +85°C
SR8G8RD5445-SB	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
ST4G8RD5288-HA	32GB	31.25	4Gb x80	2Gx8	5600MT/s	1.1V	0°C to +70°C
SRI4G8RD5445-SB	32GB	31.25	4Gb x80	4Gx4	4800MT/s	1.1V	-40°C to +85°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
SR4G8RD5445-SB	32GB	31.25	4Gb x80	4Gx4	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
SR4G8RD5285MA	32GB	31.25	4Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C
SRI4G8RD5285-SB	32GB	31.25	4Gb x80	2Gx8	4800MT/s	1.1V	-40°C to +85°C
SR4G8RD5285-SB	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
SRZ2G8RD5285-SB	16GB	31.25	2Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C
SRI2G8RD5285-SB	16GB	31.25	2Gb x80	2Gx8	4800MT/s	1.1V	-40°C to +85°C
ST2G8RD5285-MA	16GB	31.25	2Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C

288-PIN - DDR5 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SR4G8RD5285MAV	32GB	18.75	4Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C
SR4G8RD5285SBV	32GB	18.75	4Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C
SR4G8RD5285HAV	32GB	18.75	4Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C

DDR4 Ordering Information

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

288-PIN - DDR4 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
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
ST1637RD420465-HC	128GB	31.25	16Gb x72	8Gx4	3200MT/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

DDR4 Ordering Information

288-PIN - DDR4 RDIMM Continued							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
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
ST8197RD440425-HC	64GB	30.75	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
ST8197RD420893MF	64GB	24.40	8Gb x72	2Gx8	2666MT/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
ST4097RD440425-MF	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
STI4097RD420825MF	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STT4097RD420825MF	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST4097RD420425-HE	32GB	31.25	4Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
STB4097RD420425-MR	32GB	31.25	4Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
STB4097RD420425-SE	32GB	31.25	4Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
SRI4097RD420425-SE	32GB	31.25	4Gb x72	2Gx4	3200MT/s	1.2V	-40°C to +85°C
ST4097RD420425-MR	32GB	31.25	4Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
ST4097RD420425-SE	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
STI4097RD420493SC	32GB	31.25	4Gb x72	2Gx4	2666MT/s	1.2V	-40°C to +85°C
ST2047RD420825HC	16GB	31.25	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD420825MF	16GB	31.25	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
SRI2047RD420425-SE	16GB	31.25	2Gb x72	2Gx4	3200MT/s	1.2V	-40°C to +85°C
ST2047RD420425-HE	16GB	31.25	2Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
STB2047RD420425-SE	16GB	31.25	2Gb x72	2Gx4	3200MT/s	1.2V	-25°C to +85°C
ST2047RD420425-MR	16GB	31.25	2Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
ST2047RD420425-SE	16GB	31.25	2Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
SRI2047RD410825-SE	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	-40°C to +85°C
SR2047RD410825-SE	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD410825-HE	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD410825SC	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
STI2047RD410893SC	16GB	31.25	2Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C
ST2047RD410893SC	16GB	31.25	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047RD420493SC	16GB	31.25	2Gb x72	2Gx4	2666MT/s	1.2V	0°C to +70°C
ST1027RD410825SC	8GB	31.25	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027RD410893SC	8GB	31.25	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
STI1027RD410893SC	8GB	31.25	1Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C
ST1027RD451893SF	8GB	31.25	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
STI1027RD451893SF	8GB	31.25	1Gb x72	512Mx8	2666MT/s	1.2V	-40°C to +85°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

288-PIN - DDR4 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST4097RD440425SCV	32GB	18.75	4Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST4097RD420825HCV	32GB	18.75	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4097RD420825MFV	32GB	18.75	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4097RD420825SCV	32GB	18.75	4Gb x72	2Gx8	3200MT/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

288-PIN - DDR4 LRDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
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

DDR3 Ordering Information

288-PIN - DDR3 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP2047RD351893NE	16GB	30.00	2Gb x72	512Mx8	1333MT/s	1.5V	0°C to +70°C
SP2047RD351893SE	16GB	30.00	2Gb x72	512Mx8	1333MT/s	1.5V	0°C to +70°C
SP1027RV351838MP	8GB	30.00	1Gb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1027RV351838NE	8GB	30.00	1Gb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1027RV351816SE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127RV351838NE	4GB	30.00	512Mb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127RV325838NJ	4GB	30.00	512Mb x72	256Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127RV351238MK	4GB	30.00	512Mb x72	512Mx4	1866MT/s	1.35V	0°C to +70°C
SP5127RV351816SE	4GB	30.00	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127RV351216MK	4GB	30.00	512Mb x72	512Mx4	1600MT/s	1.35V	0°C to +70°C



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

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Headquarters/North America:

T: (+1) 800-956-7627 • T: (+1) 510-623-1231

F: (+1) 510-623-1434 • E: info@smartm.com

Latin America:

T: (+55) 11 4417-7200 • E: sales.br@smartm.com

Asia/Pacific:

T: (+65) 6678-7670 • E: sales.asia@smartm.com

EMEA:

T: (+44) 0 7826-064-745 • E: sales.euro@smartm.com

Customer Service:

T: (+1) 510-623-1231 • E: customers@smartm.com