



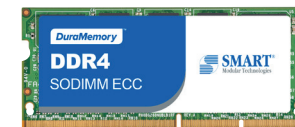
DDR4 Memory Modules

SMART Modular Technologies supports a complete lineup of DDR4 memory modules. These include VLP-DIMM, SODIMM, Mini-RDIMM, Mini-UDIMM, and LRDIMM. SMART Modular's DDR4 modules range from 32GB to 4GB, configured as x4 and x8 running GAT at DDR4-2400, DDR4-2666, DDR-2933, DDR4-3200 speed grades. SMART Modular conducts a rigorous design review process to ensure optimal performance and reliability. SMART also offers economic Value Memory in DDR4.



Features & Benefits

- 20% lower overall power vs. DDR3
- 1.2V VDD
- Write Cyclic Redundancy Check (CRC) is supported at all speed grades to insure better reliability in systems
- Higher speeds starting at DDR4-2400



Ordering Information

288-PIN - DDR4 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
STT4097RD420825MF	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STI4097RD420825MF	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST4097RD420825SC	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI2047RD410825SG	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST2047RD420825MF	16GB	31.25	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD420825HD	16GB	31.25	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD410825SG	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
STI1027RD451825SG	8GB	31.25	1Gb x72	512Mx8	3200MT/s	1.2V	-40°C to +85°C
ST1027RD451825SG	8GB	31.25	1Gb x72	512Mx8	3200MT/s	1.2V	0°C to +70°C
ST1027RD410825SG	8GB	31.25	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C

* Reflects Operating Ambient Temperature

Ordering Information

288-PIN - DDR4 Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST2047MR410893SG	16GB	30.00	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MR410893HE	16GB	30.00	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MR451893SG	8GB	30.00	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 ULP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST4097MR420825MFU	32GB	17.78	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047MR410825SGU	16GB	17.78	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 VLP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
ST2047MR420825SCV	16GB	18.75	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST8197RD440425MFV	64GB	19.00	8Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST4097RD440425SCV	32GB	18.75	4Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST4097RD440425HDV	32GB	18.75	4Gb x72	4Gx4	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
ST4097RD420825MFV	32GB	18.75	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4097RD420825HDV	32GB	18.75	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD410825SGV	16GB	18.75	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD410825HEV	16GB	18.75	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD420425HEV	16GB	18.75	2Gb x72	2Gx4	3200MT/s	1.2V	0°C to +70°C
ST2047RD420825SCV	16GB	18.75	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027RD410825SGV	8GB	18.75	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027RD410825MRV	8GB	18.75	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027RD410893SGV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027RD451825SGV	8GB	18.75	1Gb x64	512Mx8	3200MT/s	1.2V	0°C to +70°C
260-PIN - DDR4 Non-ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST4096SO420825MF	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4096SO420825HD	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST12046SO410825SG	16GB	30.00	2Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST12046SO410825-SE	16GB	30.00	2Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST12046SO410825MR	16GB	30.00	2Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST2046SO410825SG	16GB	30.00	2Gb x64	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2046SO410825MR	16GB	30.00	2Gb x64	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST11026SO410825SG	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST11026SO410825MR	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST1026SO410825SG	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1026SO410825MR	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1026SO451825SG	8GB	30.00	1Gb x64	512Mx8	3200MT/s	1.2V	0°C to +70°C
ST5126SO451625MR	4GB	30.00	512Mb x64	512Mx16	3200MT/s	1.2V	0°C to +70°C
STZ5126SO451893SG	4GB	30.00	512Mb x64	512Mx8	2666MT/s	1.2V	0°C to +70°C
STI5127SO451893SG	4GB	30.00	512Mb x72	512Mx8	2666MT/s	1.2V	-40°C to +85°C
STI5126SO451893SG	4GB	30.00	512Mb x64	512Mx8	2666MT/s	1.2V	-40°C to +85°C
ST5127SO451893SG	4GB	30.00	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST2566SO421693SG	2GB	30.00	256Mb x64	256Mx16	2666MT/s	1.2V	0°C to +70°C

* Reflects Operating Ambient Temperature

Ordering Information

260-PIN - DDR4 ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
STI4097SO420825SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STI4097SO420825MF	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STB4097SO420825SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4097SO420825SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4097SO420825MF	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI2047SO420825SC	16GB	30.00	2Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST2047SO420825SC	16GB	30.00	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI2047SO410825SG	16GB	30.00	2Gb x72	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST2047SO410825SG	16GB	30.00	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047SO410825HE	16GB	30.00	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
STI2047SO410814MR	16GB	30.00	2Gb x72	1Gx8	2933MT/s	1.2V	-40°C to +85°C
STI1027SO410825SG	8GB	30.00	1Gb x72	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST1027SO410825SG	8GB	30.00	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027SO410825HE	8GB	30.00	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST5127SO451825NE	4GB	30.00	512Mb x72	512Mx8	3200MT/s	1.2V	0°C to +70°C

288-PIN - DDR4 Non-ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
STT4096UD420825MF	32GB	31.25	4Gb x64	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST4096UD420825MF	32GB	31.25	4Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2046UD420825SC	16GB	31.25	2Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI5126UD451825SG	4GB	31.25	512Mb x64	512Mx8	3200MT/s	1.2V	-40°C to +85°C
ST5126UD451825SG	4GB	31.25	512Mb x64	512Mx8	3200MT/s	1.2V	0°C to +70°C

288-PIN - DDR4 ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
STI4097UD420825SC	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST4097UD420825SC	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047UD420825SC	16GB	31.25	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047UD420825HD	16GB	31.25	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047UD410825SGU	16GB	17.78	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047UD410825SG	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027UD410825SG	8GB	31.25	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C

288-PIN - DDR4 ECC ULP UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
STI4097UD420825SCU	32GB	17.78	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST4097UD420825SCU	32GB	17.78	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4097UD420825HDU	32GB	17.78	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C

288-PIN - DDR4 Non-ECC VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST5126MU451825SGV	4GB	18.75	512Mb x72	512Mx8	3200MT/s	1.2V	0°C to +70°C

288-PIN - DDR4 ECC VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST4097MU420825MFV	32GB	18.75	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047MU420825SCV	16GB	18.75	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027MR410825SGV	8GB	18.75	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027MU451893SGV	8GB	18.75	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST1027MU451893NEV	8GB	18.75	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C

* Reflects Operating Ambient Temperature

Ordering Information

216 PIN - DDR4 MIP							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST2046MP42W625MF	16GB	22.25	2Gb x64	2Gx16	3200MT/s	1.2V	0°C to +70°C
ST2046MP42W614MB	16GB	22.25	2Gb x64	1Gx16	2933MT/s	1.2V	0°C to +70°C
STT1026MP411625MF	8GB	22.25	1Gb x64	1Gx16	3200MT/s	1.2V	-40°C to +85°C
STT5126MP451625MR	4GB	22.25	512Mb x64	512Mx16	3200MT/s	1.2V	-40°C to +85°C
STT2566MP421625NE	2GB	22.25	256Mb x64	256Mx16	3200MT/s	1.2V	-40°C to +85°C
STT2566MP421625MG	2GB	22.25	256Mb x64	256Mx16	3200MT/s	1.2V	-40°C to +85°C

* Reflects Operating Ambient Temperature



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

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