

DuraMemory



Zefr
MEMORY

SMART DRAM for Edge Computing

Reliable, Trusted, Proven

Critical Needs for Edge Computing Applications

- Wide range of memory density, form factor, and performance requirements
- AI/ML driving scalable performance and increasing density requirements
- Reliability
- Industrial grade options for harsh operating environments
- Long term service and support

Why SMART Memory for Edge Computing Applications?

- Best-fit ruggedized, industrial memory modules for a variety of Edge Computing needs.
- Highly reliable for maintaining uninterrupted service – Zefr memory
- Highest densities for capturing, processing and storing large amounts of data
- Long term service and support
- Industrial temperature

Applications

- Industrial automation warehousing
- Automated manufacturing and control
- Offshore oil rigs, utilities, transportation
- Global material tracking



DDR5 Ordering Information

288-PIN - DDR5 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SR4G8RD5285SB	32GB	31.25	4Gb 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
ST4G8RD5285MAV	32GB	18.75	4Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C
ST4G8RD5285SBV	32GB	18.75	4Gb x80	2Gx8	4800MT/s	1.1V	0°C to +70°C
262-PIN - DDR5 ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SRI4G7SO5285SB	32GB	30.00	4Gb x72	2Gx8	4800MT/s	1.1V	-40°C to +85°C
ST4G7SO5285SB	32GB	30.00	4Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
SR4G6SO5285-SB	32GB	30.00	4Gb x64	2Gx8	4800MT/s	1.1V	0°C to +70°C
SRI4G6SO5285-SB	32GB	30.00	4Gb x64	2Gx8	4800MT/s	1.1V	-40°C to +85°C
SRI2G7SO5285SB	16GB	30.00	2Gb x72	2Gx8	4800MT/s	1.1V	-40°C to +85°C
ST2G7SO5285SB	16GB	30.00	2Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
SR2G6SO5285-SB	16GB	30.00	2Gb x64	2Gx8	4800MT/s	1.1V	0°C to +70°C
SRI2G6SO5285-SB	16GB	30.00	2Gb x64	2Gx8	4800MT/s	1.1V	-40°C to +85°C
SR1G6SO5165-SB	8GB	30.00	1Gb x64	1Gx16	4800MT/s	1.1V	0°C to +70°C
SRI1G6SO5165-SB	8GB	30.00	1Gb x64	1Gx16	4800MT/s	1.1V	-40°C to +85°C
288-PIN - DDR5 ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SR6G7UD5385MB	48GB	31.25	6Gb x72	3Gx8	4800MT/s	1.1V	0°C to +70°C
ST4G7UD5285SB	32GB	31.25	4Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
ST2G7UD5285SB	16GB	31.25	2Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
SRI2G7UD5285SB	16GB	31.25	2Gb x72	2Gx8	4800MT/s	1.1V	-40°C to +85°C
288-PIN - DDR5 ECC VLP UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST4G7UD5285SBV	32GB	18.75	4Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
SRI2G7UD5285SBV	16GB	18.75	2Gb x72	2Gx8	4800MT/s	1.1V	-40°C to +85°C
ST2G7UD5285SBV	16GB	18.75	2Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C

DDR4 Ordering Information

288-PIN - DDR4 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
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
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
ST4097RD420825SC	32GB	31.25	4Gb x72	2Gx8	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
ST2047RD410825SC	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047RD420825HC	16GB	31.25	2Gb x72	2Gx8	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
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
STI2047RD410893SC	16GB	31.25	2Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°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

DDR4 Ordering Information

288-PIN - DDR4 RDIMM Continued							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST1027RD451893SF	8GB	31.25	1Gb x72	512Mx8	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
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
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
ST1027MR410825SCV	8GB	18.75	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027MR410893SCV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST5127MR451825SFV	4GB	18.75	512Mb x72	512Mx8	3200MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST8197RD440425MFV	64GB	19.00	8Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST8197RD48D425HCV	64GB	18.75	8Gb x72	4Gx4	3200MT/s	1.2V	0°C to +70°C
ST8197RD48D425MFV	64GB	18.75	8Gb 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
ST4097RD440425HCV	32GB	18.75	4Gb 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
ST2047RD410893SCV	16GB	18.75	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047RD420493SCV	16GB	18.75	2Gb x72	2Gx4	2666MT/s	1.2V	0°C to +70°C
STI2047RD420493SCV	16GB	18.75	2Gb x72	2Gx4	2666MT/s	1.2V	-40°C to +85°C
ST2047RD410825SCV	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
ST1027RD410893SCV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027RD451893SFV	8GB	18.75	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST1027RD410825MRV	8GB	18.75	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027RD410825SCV	8GB	18.75	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST5127RD451893SFV	4GB	18.75	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
260-PIN - DDR4 Non-ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST4096SO420825HC	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4096SO420825MF	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI4096SO420825HC	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STI2046SO410825MR	16GB	30.00	2Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
STI2046SO410825SC	16GB	30.00	2Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST2046SO410893SC	16GB	30.00	2Gb x64	1Gx8	2666MT/s	1.2V	0°C to +70°C
STI2046SO410893SC	16GB	30.00	2Gb x64	1Gx8	2666MT/s	1.2V	-40°C to +85°C
ST1026SO410825SC	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	0°C to +70°C
STI1026SO410825MR	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
STI1026SO410825SC	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST1026SO410893SC	8GB	30.00	1Gb x64	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1026SO451893SF	8GB	30.00	1Gb x64	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST5126SO451625MR	4GB	30.00	512Mb x64	512Mx16	3200MT/s	1.2V	0°C to +70°C
ST5126SO451893SF	4GB	30.00	512Mb x64	512Mx8	2666MT/s	1.2V	0°C to +70°C

DDR4 Ordering Information

260-PIN - DDR4 Non-ECC SODIMM Continued							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STB5126SO451893SF	4GB	30.00	512Mb x64	512Mx8	2666MT/s	1.2V	-25°C to +85°C
STI5126SO451893SF	4GB	30.00	512Mb x64	512Mx8	2666MT/s	1.2V	-40°C to +85°C
ST2566SO421693SF	2GB	30.00	256Mb x64	256Mx16	2666MT/s	1.2V	0°C to +70°C
260-PIN - DDR4 ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST4097SO420825MF	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI4097SO420825MF	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST4097SO420825SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI4097SO420825SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST2047SO410825HE	16GB	30.00	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047SO410825SC	16GB	30.00	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
STI2047SO410825SC	16GB	30.00	2Gb x72	1Gx8	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
ST2047SO410814SC	16GB	30.00	2Gb x72	1Gx8	2933MT/s	1.2V	0°C to +70°C
STI2047SO410814MR	16GB	30.00	2Gb x72	1Gx8	2933MT/s	1.2V	-40°C to +85°C
ST2047SO410893SC	16GB	30.00	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
STI2047SO410893SC	16GB	30.00	2Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C
ST1027SO410825HE	8GB	30.00	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027SO410825SC	8GB	30.00	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
STI1027SO410825SC	8GB	30.00	1Gb x72	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST1027SO410814SC	8GB	30.00	1Gb x72	1Gx8	2933MT/s	1.2V	0°C to +70°C
ST1027SO451814SF	8GB	30.00	1Gb x72	512Mx8	2933MT/s	1.2V	0°C to +70°C
ST1027SO410893SC	8GB	30.00	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027SO451893SF	8GB	30.00	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
STI1027SO410893SC	8GB	30.00	1Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C
STI1027SO451893SF	8GB	30.00	1Gb x72	512Mx8	2666MT/s	1.2V	-40°C to +85°C
ST5127SO451893SF	4GB	30.00	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
STI5127SO451893SF	4GB	30.00	512Mb x72	512Mx8	2666MT/s	1.2V	-40°C to +85°C
288-PIN - DDR4 VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device 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
ST2047MU410893HEV	16GB	18.75	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MU410893SCV	16GB	18.75	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MU420893SAV	16GB	18.75	2Gb x72	2Gx8	2666MT/s	1.2V	0°C to +70°C
STI2047MU410872SCV	16GB	18.75	2Gb x72	1Gx8	2400MT/s	1.2V	-40°C to +85°C
ST1027MU410893HEV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MU410893SCV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MU451893MFV	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
ST1027MU451893SFV	8GB	18.75	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
STI1027MU410872SCV	8GB	18.75	1Gb x72	1Gx8	2400MT/s	1.2V	-40°C to +85°C
ST5126MU451893SFV	4GB	18.75	512Mb x64	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST5127MU451893SFV	4GB	18.75	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C



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