



# SMART DRAM Memory for IIoT Applications

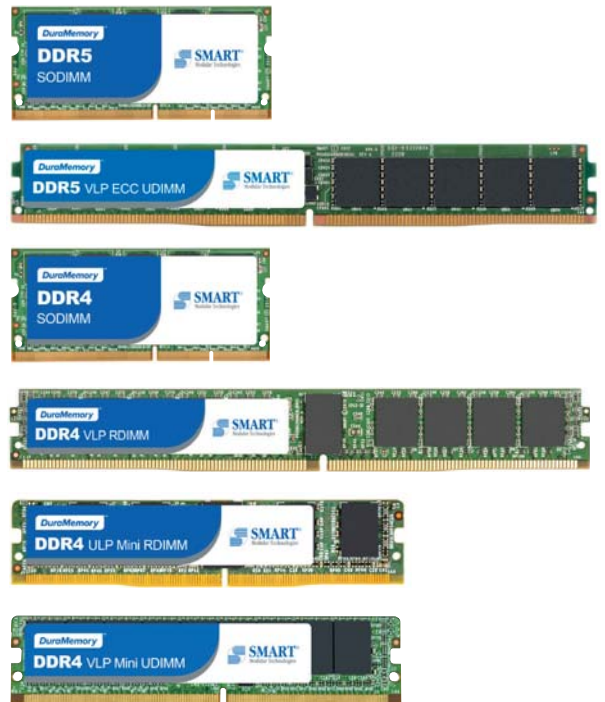
Reliable, Trusted, Proven

## Factors Affecting Memory Requirements for IIoT Applications

- Exponential growth of endpoint data creation
- Increasing need for localized IIoT data processing to minimize high bandwidth data transmission needs
- Significant need for high reliability in harsher operating environments
- Significant need for long lifecycle service and support

## Why SMART DuraMemory for IIoT Applications?

- Highest reliability memory for remotely deployed industrial computing equipment
- Wide portfolio of memory products including form factors, technologies, speeds, and densities that are ideally-suited for IIoT
- Multiple proven solutions to protect against environmental threats
- In-house I-temp processing for high reliability, lower costs and shorter leadtimes



## Applications

- Asset tracking
- Preventative maintenance
- Inventory management
- Remote monitoring and control
- Employee and environmental safety

## DDR5 Ordering Information

288-PIN - DDR5 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
SR4G8RD5288SBV	32GB	18.75	4Gb x80	2Gx8	5600MT/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
262-PIN - DDR5 Non-ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
SR6G6SO5385MB	48GB	30.00	6Gb x64	3Gx8	4800MT/s	1.1V	0°C to +70°C
SR4G6SO5288-SP	32GB	30.00	4Gb x64	2Gx8	5600MT/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
SR4G6SO5285SB	32GB	30.00	4Gb x64	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
SR2G6SO5288-SP	16GB	30.00	2Gb x64	2Gx8	5600MT/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
SR2G6SO5285SB	16GB	30.00	2Gb x64	2Gx8	4800MT/s	1.1V	0°C to +70°C
SR1G6SO5168-SP	8GB	30.00	1Gb x64	1Gx16	5600MT/s	1.1V	0°C to +70°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
262-PIN - DDR5 ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
SR6G7SO5385HM	48GB	30.00	6Gb x72	3Gx8	4800MT/s	1.1V	0°C to +70°C
SRI4G7SO5288-SP	32GB	30.00	4Gb x72	2Gx8	5600MT/s	1.1V	-40°C to +85°C
SR4G7SO5288-SP	32GB	30.00	4Gb x72	2Gx8	5600MT/s	1.1V	0°C to +70°C
SRI4G7SO5285SB	32GB	30.00	4Gb x72	2Gx8	4800MT/s	1.1V	-40°C to +85°C
SR4G7SO5285SB	32GB	30.00	4Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
ST4G7SO5285SB	32GB	30.00	4Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
SR2G7SO5288-SP	16GB	30.00	2Gb x72	2Gx8	5600MT/s	1.1V	0°C to +70°C
SRI2G7SO5288-SP	16GB	30.00	2Gb x72	2Gx8	5600MT/s	1.1V	-40°C to +85°C
SR2G7SO5285-SB	16GB	30.00	2Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
SRI2G7SO5285SB	16GB	30.00	2Gb x72	2Gx8	4800MT/s	1.1V	-40°C to +85°C
SR2G7SO5285SB	16GB	30.00	2Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
288-PIN - DDR5 Non-ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
SRI4G6UD5285-SB	32GB	31.25	4Gb x64	2Gx8	4800MT/s	1.1V	-40°C to +85°C
SRI2G6UD5285-SB	16GB	31.25	2Gb x64	2Gx8	4800MT/s	1.1V	-40°C to +85°C
SRI1G6UD5165-SB	8GB	31.25	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 Config	Speed	Voltage	Temp*
SR4G7UD5285-SB	32GB	31.25	4Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C
SR4G7UD5285SB	32GB	31.25	4Gb 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*
SR4G7UD5288MDV	32GB	18.75	4Gb x72	2Gx8	5600MT/s	1.1V	0°C to +70°C
SRI4G7UD5285SBV	32GB	18.75	4Gb x72	2Gx8	4800MT/s	1.1V	-40°C to +85°C
SR4G7UD5285SBV	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
SR2G7UD5285SBV	16GB	18.75	2Gb x72	2Gx8	4800MT/s	1.1V	0°C to +70°C

\* Reflects Operating Ambient Temperature

## DDR4 Ordering Information

288-PIN - DDR4 ULP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
ST4097MR420825MFV	32GB	17.78	4Gb x72	2Gx8	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	Device Config	Speed	Voltage	Temp*
ST8197RD440425MFV	64GB	19.00	8Gb x72	4Gx4	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
ST1027RD410893SGV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
STI4097UD420825SC	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
288-PIN - DDR4 ECC ULP UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
ST4097UD420825SCU	32GB	17.78	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 ECC 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
260-PIN - DDR4 Non-ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
STI4096SO420825-HD	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	-40°C to +85°C
SRI4096SO420825-SC	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST4096SO420825MF	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI4096SO420825HD	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	-40°C to +85°C
ST4096SO420825HD	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
SR4096SO420825-SC	32GB	30.00	4Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
STI2046SO410825SG	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
SR2046SO420825-SC	16GB	30.00	2Gb x64	2Gx8	3200MT/s	1.2V	0°C to +70°C
SR1026SO411625-SC	16GB	30.00	1Gb x64	1Gx16	3200MT/s	1.2V	0°C to +70°C
ST2046SO410825-HE	16GB	30.00	2Gb x64	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1026SO410825-HE	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	0°C to +70°C
STI1026SO410825SG	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
STI1026SO410825MR	8GB	30.00	1Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
ST1026SO451825SG	8GB	30.00	1Gb x64	512Mx8	3200MT/s	1.2V	0°C to +70°C
ST1026SO410893-SE	8GB	30.00	1Gb x64	1Gx8	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
ST5126SO451625-HE	4GB	30.00	512Mb x64	512Mx16	3200MT/s	1.2V	0°C to +70°C
SRI5126SO451625-SG	4GB	30.00	512Mb x64	512Mx16	3200MT/s	1.2V	-40°C to +85°C
SR5126SO451625-SG	4GB	30.00	512Mb x64	512Mx16	3200MT/s	1.2V	0°C to +70°C

\* Reflects Operating Ambient Temperature

## DDR4 Ordering Information

260-PIN - DDR4 ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
STB4097SO420825SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
SRZ4097SO420825-SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
SRI4097SO420825SA	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STI4097SO420825SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
SRI4097SO420825-SC	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
STI4097SO420825MF	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
SR4097SO420825-SC	32GB	30.00	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047SO410825-HE	16GB	30.00	2Gb x72	1Gx8	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
SRI2047SO420825-SC	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
STI2047SO420825SC	16GB	30.00	2Gb x72	2Gx8	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
ST1027SO410825-HE	8GB	30.00	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°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
216 PIN - DDR4 MIP							
SMART Part Number	Density	Height (mm)	Module Config	Device 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](http://www.smartm.com)

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