



## **DuraMemory™**

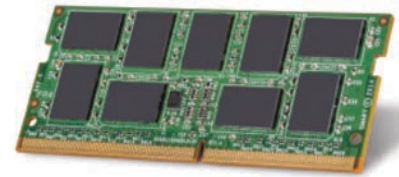
# Industrial Grade Modules

SMART's DuraMemory offers a wide lineup of DDR4 and DDR3 Industrial Grade Modules which are 100% system tested at high speeds starting with a cold boot at -40°C and ramping to +85°C ambient operation. SMART also supports extended temperature ranges beyond industrial grade from -50°C ambient to +105°C ambient. Testing durations vary depending on the density of the module. High utilization custom testing software insures that all cells in the DRAMs are fully stressed through the complete temperature cycle.

SMART has been conducting extensive DRAM screening on millions of DRAM components for many years. SMART's rigorous testing process is specifically designed to ensure these modules are well-suited to operate in harsh, long-life computing environments.

## Features & Benefits

- Shorter Lead Times
- Locked BOMs with PCN Control Competitive Pricing
- Flexible Logistics Support Programs



## Applications

- Base Stations and Outdoor Telecom Equipment
- Ideal for Industrial, Defense, Aerospace, Kiosk and Digital Signage
- Densely Configured Computing Applications with Limited Airflow
- Other Server and Storage Applications

## DDR4 Ordering Information

288-PIN - DDR4 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STT8197RD420825ME	64GB	31.75	8Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STT4097RD420825ME	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STI4097RD420414-SD	32GB	31.25	4Gb x72	2Gx4	2933MT/s	1.2V	-40°C to +85°C
STI4097RD420493-SC	32GB	31.25	4Gb x72	2Gx4	2666MT/s	1.2V	-40°C to +85°C
STI4097RD420493SC	32GB	31.25	4Gb x72	2Gx4	2666MT/s	1.2V	-40°C to +85°C
STI2047RD410825-SD	16GB	31.25	2Gb x72	1Gx8	3200MT/s	1.2V	-40°C to +85°C
STI2047RD420425-SD	16GB	31.25	2Gb x72	2Gx4	3200MT/s	1.2V	-40°C to +85°C
STI2047RD410893-SC	16GB	31.25	2Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C
STI2047RD410893SC	16GB	31.25	2Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°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
288-PIN - DDR4 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STI2047RD420493SCV	16GB	31.25	2Gb x72	2Gx4	2666MT/s	1.2V	-40°C to +85°C
288-PIN - DDR4 ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STI4097UD420825SA	32GB	31.25	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STI2047UD410893SC	16GB	31.25	2Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C
STI1027UD410893SC	8GB	31.25	1Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C
288-PIN - DDR4 Non-ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STI5126UD451893SF	4GB	31.25	512Mb x64	512Mx8	2666MT/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
STI4097UD420893SAU	32GB	17.78	4Gb x72	2Gx8	2666MT/s	1.2V	-40°C to +85°C
288-PIN - DDR4 ECC VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STI2047MU410872SCV	16GB	18.75	2Gb x72	1Gx8	2400MT/s	1.2V	-40°C to +85°C
STI1027MU410872SCV	8GB	18.75	1Gb x72	1Gx8	2400MT/s	1.2V	-40°C to +85°C
260-PIN - DDR4 Non-ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STI4096SO420825-SA	32GB	30	4Gb x64	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STI4096SO420893-SM	32GB	30	32Gb x64	2Gx8	2666MT/s	1.2V	-40°C to +85°C
STI2046SO410825-SD	16GB	30	2Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
STI2046SO410893-SD	16GB	30	2Gb x64	1Gx8	2666MT/s	1.2V	-40°C to +85°C
STI2046SO410893SC	16GB	30	2Gb x64	1Gx8	2666MT/s	1.2V	-40°C to +85°C
STI1026SO410825-SD	8GB	30	1Gb x64	1Gx8	3200MT/s	1.2V	-40°C to +85°C
STI1026SO410893-SD	8GB	30	1Gb x64	1Gx8	2666MT/s	1.2V	-40°C to +85°C
STI5126SO451893SF	4GB	30	512Mb x64	512Mx8	2666MT/s	1.2V	-40°C to +85°C
260-PIN - DDR4 ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STI4097SO420825SA	32GB	30	4Gb x72	2Gx8	3200MT/s	1.2V	-40°C to +85°C
STI4097SO420814SA	32GB	30	4Gb x72	2Gx8	2933MT/s	1.2V	-40°C to +85°C
STI4097SO420893SA	32GB	30	4Gb x72	2Gx8	2666MT/s	1.2V	-40°C to +85°C
STI2047SO410825SC	16GB	30	2Gb x72	1Gx8	3200MT/s	1.2V	-40°C to +85°C
STI2047SO410814SC	16GB	30	2Gb x72	1Gx8	2933MT/s	1.2V	-40°C to +85°C
STI2047SO410893SC	16GB	30	2Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C

## DDR4 Ordering Information

260-PIN - DDR4 ECC SODIMM Continued							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STI1027SO410893SC	8GB	30	1Gb x72	1Gx8	2666MT/s	1.2V	-40°C to +85°C
STI1027SO451893SF	8GB	30	1Gb x72	512Mx8	2666MT/s	1.2V	-40°C to +85°C
STI5127SO451893SF	4GB	30	512Mb x72	512Mx8	2666MT/s	1.2V	-40°C to +85°C

216-PIN - DDR4 MIP							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
STT5126MP451693ME	4GB	22.25	512Mb x64	512Mx16	2666MT/s	1.2V	-40°C to +85°C
STT2566MP421693ND	2GB	22.25	256Mb x64	256Mx16	2666MT/s	1.2V	-40°C to +85°C

## DDR3 Ordering Information

240 PIN - DDR3 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPI2047RV310438SE	16GB	30	2Gb x72	1Gx4	1866MT/s	1.35V	-40°C to +85°C

240 PIN - DDR3 VLP RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPI1027RV351816SEV	8GB	18.75	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C

244 PIN - DDR3 VLP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPI1027MV351816MPV	8GB	18.3	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C

204 PIN - DDR3 On-Chip ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPT102ESV351816GC	8GB	30	1Gb x64	512Mx8	1600MT/s	1.35V	-40°C to +85°C

204 PIN - DDR3 Non-ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPT2046SV310816GB	16GB	30	2Gb x64	1Gx8	1600MT/s	1.35V	-40°C to +85°C
SPI1026SV351838SE	8GB	30	1Gb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SPI1026SV351816SE1	8GB	30	1Gb x64	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI5126SV351838SE	4GB	30	512Mb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SPI5126SV351816SE	4GB	30	512Mb x64	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI2566SV325838SF	2GB	30	256Mb x64	256Mx8	1866MT/s	1.35V	-40°C to +85°C
SPI2566SV325816SF	2GB	30	256Mb x64	256Mx8	1600MT/s	1.35V	-40°C to +85°C
SHI1286SV312816SI	1GB	30	128Mb x64	128Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI1286SV312816SI	1GB	30	128Mb x64	128Mx8	1600MT/s	1.35V	-40°C to +85°C

204 PIN - DDR3 ECC SORDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPI1027SL351816SE	8GB	30	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI5127SL351816SE	4GB	30	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C

204 PIN - DDR3 ECC SODIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPT2047SV310816GB	16GB	30	2Gb x72	1Gx8	1600MT/s	1.35V	-40°C to +85°C
SPI1027SV351816SE	8GB	30	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI5127SV351816SE	4GB	25.4	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI2567SO325838SF	2GB	25.4	256Mb x72	256Mx8	1866MT/s	1.5V	-40°C to +85°C

244 PIN - DDR3 Non-ECC UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPI1026UV351838SE	8GB	30	1Gb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SPI1026UV351816SE	8GB	30	1Gb x64	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI5126UV351838SE	4GB	30	512Mb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SPI2566UV325838SF	2GB	30	256Mb x64	256Mx8	1866MT/s	1.35V	-40°C to +85°C
SPI2566UV325816SF	2GB	30	256Mb x64	256Mx8	1600MT/s	1.35V	-40°C to +85°C

## DDR3 Ordering Information

244 PIN - DDR3 ULP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPI1027ML351816SEU	8GB	17.78	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
244 PIN - DDR3 VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPI5127ML351816SEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI2567ML325816SFV	2GB	18.75	256Mb x72	256Mx8	1600MT/s	1.35V	-40°C to +85°C
240 PIN - DDR3 XRDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPI1027XV351816SE	8GB	38	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI5127XV325816SF	4GB	38	512Mb x72	256Mx8	1600MT/s	1.35V	-40°C to +85°C
216 PIN - DDR3 MIP							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SPT2566MP321638NE	2GB	22.25	256Mb x64	256Mx16	1866MT/s	1.35V	-40°C to +85°C



For more information, please visit: [www.smartm.com](http://www.smartm.com)

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