



DuraMemory[™]

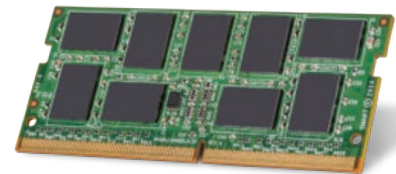
Industrial Grade Modules

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 |
| STI4097RD420414-SD | 32GB | 31.25 | 4Gb x72 | 2Gx4 | 2933MT/s | 1.2V | -40°C to +85°C |
| STI4097RD420493SC | 32GB | 31.25 | 4Gb x72 | 2Gx4 | 2666MT/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 |
| STI2047RD420425-SD | 16GB | 31.25 | 2Gb x72 | 2Gx4 | 3200MT/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 |
| 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 |
| STI1027RD451893SF | 8GB | 31.25 | 1Gb x72 | 512Mx8 | 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 |
| 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 |
| 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 |
| STI1027UD410872SC | 8GB | 31.25 | 1Gb x72 | 1Gx8 | 2400MT/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 |
| 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 |
| STI2047SO410893SC | 16GB | 30 | 2Gb 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 |
| STI1027SO410893SC | 8GB | 30 | 1Gb x72 | 1Gx8 | 2666MT/s | 1.2V | -40°C to +85°C |
| STI5127SO451893SF | 4GB | 30 | 512Mb x72 | 512Mx8 | 2666MT/s | 1.2V | -40°C to +85°C |

DDR4 Ordering Information

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 |
| SPI2566SV325816SF | 2GB | 30 | 256Mb x64 | 256Mx8 | 1600MT/s | 1.35V | -40°C to +85°C |
| SPI2566SV325838SF | 2GB | 30 | 256Mb x64 | 256Mx8 | 1866MT/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 |
|-------------------|---------|-------------|---------------|---------------|----------|---------|----------------|
| 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 |



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