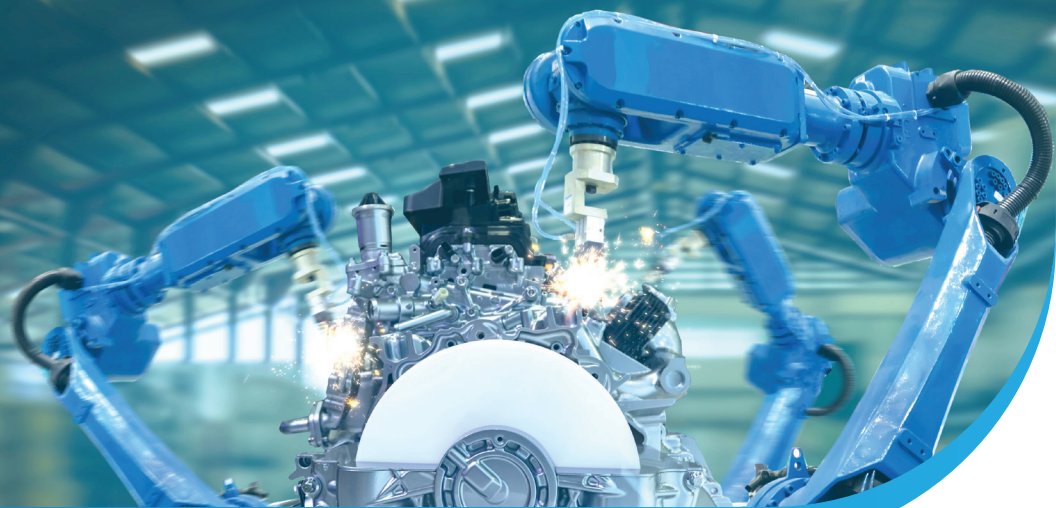




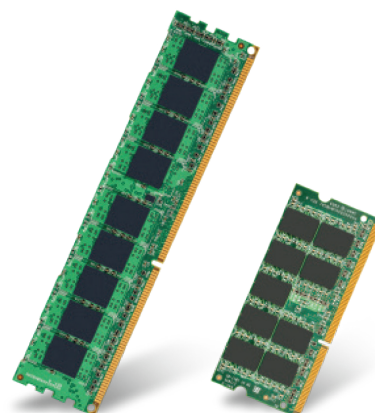
## DuraMemory™

# DDR3 Memory Modules

SMART's DDR3 modules have multiple benefits including quadrank architecture for enabling cost effective high densities and a single register design for reduced memory bus loading. Registered DIMMs (RDIMMs) use 4-bit DRAMs and leverage 8-bit DDR3 DRAMs allowing for lower power consumption due to half the number of rows and columns accessed.

## Features & Benefits

- Lower power
- Larger densities
- Improved signaling with fly-by architecture
- Thermal sensors



## Ordering Information

| 240 PIN - DDR3 ECC UDIMM     |         |             |               |               |          |         |                |
|------------------------------|---------|-------------|---------------|---------------|----------|---------|----------------|
| SMART Part Number            | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SP2047UV310816GB             | 16GB    | 30.00       | 2Gb x72       | 1Gx8          | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP1027UV351838NE             | 8GB     | 30.00       | 1Gb x72       | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SP1027UD351838NE             | 8GB     | 30.00       | 1Gb x72       | 512Mx8        | 1866MT/s | 1.5V    | 0°C to +70°C   |
| SP1027UD351838GB             | 8GB     | 30.00       | 1Gb x72       | 512Mx8        | 1866MT/s | 1.5V    | 0°C to +70°C   |
| SP5127UV351838NE             | 4GB     | 30.00       | 512Mb x72     | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SP5127UV351838GB             | 4GB     | 30.00       | 512Mb x72     | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SP5127UD351838NE             | 4GB     | 30.00       | 512Mb x72     | 512Mx8        | 1866MT/s | 1.5V    | 0°C to +70°C   |
| SP2567UV325838NJ             | 2GB     | 30.00       | 256Mb x72     | 256Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| 240 PIN - DDR3 Non-ECC UDIMM |         |             |               |               |          |         |                |
| SMART Part Number            | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SPI1026UV351838NE            | 8GB     | 30.00       | 1Gb x64       | 512Mx8        | 1866MT/s | 1.35V   | -40°C to +85°C |
| SP1026UV351838NE             | 8GB     | 30.00       | 1Gb x64       | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SPI5126UV351838NE            | 4GB     | 30.00       | 512Mb x64     | 512Mx8        | 1866MT/s | 1.35V   | -40°C to +85°C |
| SP5126UV351838NE             | 4GB     | 30.00       | 512Mb x64     | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |

\* Reflects Operating Ambient Temperature

## Ordering Information

| 240 PIN - DDR3 ECC VLP UDIMM                                |         |             |               |               |          |         |                |
|-------------------------------------------------------------|---------|-------------|---------------|---------------|----------|---------|----------------|
| SMART Part Number                                           | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SP1027UV351816NEV                                           | 8GB     | 18.29       | 1Gb x72       | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP5127UV351816NEV                                           | 4GB     | 18.75       | 512Mb x72     | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| 240 PIN - DDR3 Non-ECC VLP UDIMM                            |         |             |               |               |          |         |                |
| SMART Part Number                                           | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SP1026UV351816NEV                                           | 8GB     | 18.29       | 1Gb x64       | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP1026UV351816SEV                                           | 8GB     | 18.29       | 1Gb x64       | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| 240 PIN - DDR3 Non-ECC VLP UDIMM                            |         |             |               |               |          |         |                |
| SMART Part Number                                           | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SP1026UV351816NEV                                           | 8GB     | 18.29       | 1Gb x64       | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| 244 PIN - DDR3 ECC Mini-UDIMM                               |         |             |               |               |          |         |                |
| SMART Part Number                                           | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SP5127ML351816NE                                            | 8GB     | 30.00       | 1Gb x72       | 1Gx8          | 1600MT/s | 1.35V   | 0°C to +70°C   |
| 244 PIN - DDR3 ECC ULP (17.8mm) and VLP (18.8mm) Mini-UDIMM |         |             |               |               |          |         |                |
| SMART Part Number                                           | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SP1027ML351816MPU                                           | 8GB     | 17.78       | 1Gb x72       | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP1027ML351893NEU                                           | 8GB     | 17.78       | 1Gb x72       | 512Mx8        | 1333MT/s | 1.35V   | 0°C to +70°C   |
| SPI5127ML351816NEV                                          | 4GB     | 18.75       | 512Mb x72     | 512Mx8        | 1600MT/s | 1.35V   | -40°C to +85°C |
| SP5127ML351816NEV                                           | 4GB     | 18.75       | 512Mb x72     | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP2567MU325838NJV                                           | 2GB     | 18.75       | 256Mb x72     | 256Mx8        | 1866MT/s | 1.5V    | 0°C to +70°C   |
| 204 PIN - DDR3 Non-ECC SODIMM                               |         |             |               |               |          |         |                |
| SMART Part Number                                           | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SPT2046SV310816GB                                           | 16GB    | 30.00       | 2Gb x64       | 1Gx8          | 1600MT/s | 1.35V   | -40°C to +85°C |
| SP2046SV310816GB                                            | 16GB    | 30.00       | 2Gb x64       | 1Gx8          | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SPI1026SV351838NE                                           | 8GB     | 30.00       | 1Gb x64       | 512Mx8        | 1866MT/s | 1.35V   | -40°C to +85°C |
| SP1026SV351838NE                                            | 8GB     | 30.00       | 1Gb x64       | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SP1026SV351838MP                                            | 8GB     | 30.00       | 1Gb x64       | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SP1026SV310816GB                                            | 8GB     | 30.00       | 1Gb x64       | 1Gx8          | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP1026SV351816MP                                            | 8GB     | 30.00       | 1Gb x64       | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP5126SV351838NE                                            | 4GB     | 30.00       | 512Mb x64     | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SPI5126SV351838NE                                           | 4GB     | 30.00       | 512Mb x64     | 512Mx8        | 1866MT/s | 1.35V   | -40°C to +85°C |
| SPI5126SV325838NJ                                           | 4GB     | 30.00       | 512Mb x64     | 256Mx8        | 1866MT/s | 1.35V   | -40°C to +85°C |
| SP5126SV325838NJ                                            | 4GB     | 30.00       | 512Mb x64     | 256Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SP5126SV321616NE                                            | 4GB     | 30.00       | 512Mb x64     | 256Mx16       | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP5126SV351816NE                                            | 4GB     | 30.00       | 512Mb x64     | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP5126SV351816MP                                            | 4GB     | 30.00       | 512Mb x64     | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP2566SV321638NE                                            | 2GB     | 30.00       | 256Mb x64     | 256Mx16       | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SPI2566SV325838NJ                                           | 2GB     | 30.00       | 256Mb x64     | 256Mx8        | 1866MT/s | 1.35V   | -40°C to +85°C |
| SP2566SV325838NJ                                            | 2GB     | 30.00       | 256Mb x64     | 256Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SP1286SV312638NJ                                            | 1GB     | 31.00       | 128Mb x64     | 128Mx16       | 1866MT/s | 1.35V   | 0°C to +70°C   |
| 204 PIN - DDR3 ECC SOUDIMM                                  |         |             |               |               |          |         |                |
| SMART Part Number                                           | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*          |
| SPI1027SV351816NE                                           | 8GB     | 30.00       | 1Gb x72       | 512Mx8        | 1600MT/s | 1.35V   | -40°C to +85°C |
| SP1027SV351816NE                                            | 8GB     | 30.00       | 1Gb x72       | 512Mx8        | 1600MT/s | 1.35V   | 0°C to +70°C   |
| SP5127SV351838NE                                            | 4GB     | 25.40       | 512Mb x72     | 512Mx8        | 1866MT/s | 1.35V   | 0°C to +70°C   |
| SPI5127SV351816NE                                           | 4GB     | 25.40       | 512Mb x72     | 512Mx8        | 1600MT/s | 1.35V   | -40°C to +85°C |
| SPI2567SO325838NJ                                           | 2GB     | 25.40       | 256Mb x72     | 256Mx8        | 1866MT/s | 1.5V    | -40°C to +85°C |

\* Reflects Operating Ambient Temperature

# Ordering Information

| 204 PIN - DDR3 ECC VLP SOUDIMM |         |             |               |               |          |         |              |
|--------------------------------|---------|-------------|---------------|---------------|----------|---------|--------------|
| SMART Part Number              | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*        |
| SP2567SO325838NV               | 2GB     | 25.40       | 256Mb x72     | 256Mx8        | 1866MT/s | 1.5V    | 0°C to +70°C |
| 216 PIN - DDR3 MIP             |         |             |               |               |          |         |              |
| SMART Part Number              | Density | Height (mm) | Module Config | Device Config | Speed    | Voltage | Temp*        |
| SP2566MP321638NE               | 2GB     | 22.25       | 256Mb x64     | 256Mx16       | 1866MT/s | 1.35V   | 0°C to +70°C |

\* Reflects Operating Ambient Temperature



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

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