

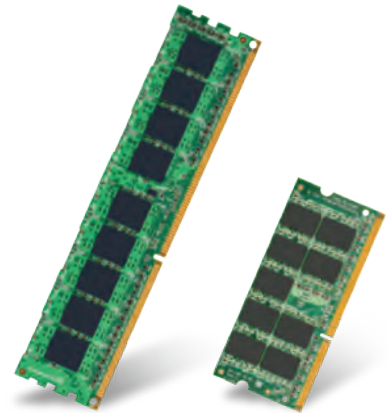
DuraMemory™

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 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP2047RD351893NE	16GB	30.00	2Gb x72	512Mx8	1333MT/s	1.5V	0°C to +70°C
SP2047RD351893SE	16GB	30.00	2Gb x72	512Mx8	1333MT/s	1.5V	0°C to +70°C
SP1027RV351838MP	8GB	30.00	1Gb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1027RV351838NE	8GB	30.00	1Gb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1027RV351816SE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127RV351838NE	4GB	30.00	512Mb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127RV351238MK	4GB	30.00	512Mb x72	512Mx4	1866MT/s	1.35V	0°C to +70°C
SP5127RV325838NJ	4GB	30.00	512Mb x72	256Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127RV351816SE	4GB	30.00	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127RV351216MK	4GB	30.00	512Mb x72	512Mx4	1600MT/s	1.35V	0°C to +70°C

Ordering Information

240 PIN - DDR3 VLP RDIMM

SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP1027RV351838NEV	8GB	18.75	1Gb x72	512Mx8	1866MT/s	1.2V	0°C to +70°C
SPI1027RV351838NEV	8GB	18.75	1Gb x72	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SP1027RV310416SEV	8GB	18.75	1Gb x72	1Gx4	1600MT/s	1.35V	0°C to +70°C
SP1027RV351816SEV	8GB	18.75	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI1027RV351816SEV	8GB	18.75	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP5127RV351838SEV	4GB	18.75	512Mb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127RV351838NEV	4GB	18.75	512Mb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127RV325838NJV	4GB	18.75	512Mb x72	256Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127RV351816SEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127RV351216MKV	4GB	18.75	512Mb x72	512Mx4	1600MT/s	1.35V	0°C to +70°C

244 PIN - DDR3 Mini-RDIMM

SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP1027MV351816NE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP1027MV351816SE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C

244 PIN - DDR3 ULP (17.8mm) and VLP (18.8mm) Mini-RDIMM

SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP1027MV351816SEU	8GB	17.78	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP1027MV351816MPV	8GB	18.30	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI1027MV351816MPV	8GB	18.30	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP5127MR325838NJV	4GB	27.00	512Mb x72	256Mx8	1866MT/s	1.5V	0°C to +70°C
SP5127MV351816MPV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127MV351816NEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127MV351816SEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127MR351893SEV	4GB	18.75	512Mb x72	512Mx8	1333MT/s	1.5V	0°C to +70°C

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
SP1027UD351838GB	8GB	30.00	1Gb x72	512Mx8	1866MT/s	1.5V	0°C to +70°C
SP1027UD351838SE	8GB	30.00	1Gb x72	512Mx8	1866MT/s	1.5V	0°C to +70°C
SP1027UV351838NE	8GB	30.00	1Gb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1027UV351816SE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127UV351838GB	4GB	30.00	512Mb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127UV351838NE	4GB	30.00	512Mb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127UV351838SE	4GB	30.00	512Mb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127UV351816SE	4GB	30.00	512Mb x72	512Mx8	1600MT/s	1.35V	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
SP1026UV351838NE	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1026UV351838SE	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	0°C to +70°C
SPI1026UV351838NE	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SPI1026UV351838SE	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SP1026UV351816SE	8GB	30.00	1Gb x64	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI1026UV351816SE	8GB	30.00	1Gb x64	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP5126UV351838NE	4GB	30.00	512Mb x64	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5126UV351838SE	4GB	30.00	512Mb 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
SPI5126UV351838SE	4GB	30.00	512Mb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SP5126UV351816SE	4GB	30.00	512Mb x64	512Mx8	1600MT/s	1.35V	0°C to +70°C

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
SP1027UV351816SEV	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
SP5127UV351816SEV	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
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
SP5127ML351816SE	4GB	30.00	512Mb x72	512Mx8	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
SPI1027ML351816SEU	8GB	17.78	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP1027ML351816SEU	8GB	17.78	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
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
SPI5127ML351816SEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI5127ML351816NEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP5127ML351816SEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°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
SP2046SV310816GB	16GB	30.00	2Gb x64	1Gx8	1600MT/s	1.35V	0°C to +70°C
SPT2046SV310816GB	16GB	30.00	2Gb x64	1Gx8	1600MT/s	1.35V	-40°C to +85°C
SP1026SV351838MP	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1026SV351838NE	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1026SV351838SE	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	0°C to +70°C
SPI1026SV351838NE	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°C
SPI1026SV351838SE	8GB	30.00	1Gb x64	512Mx8	1866MT/s	1.35V	-40°C to +85°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
SP1026SV351816SE1	8GB	30.00	1Gb x64	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI1026SV351816SE1	8GB	30.00	1Gb x64	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP5126SV351838NE	4GB	30.00	512Mb x64	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5126SV351838SE1	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
SPI5126SV351838SE	4GB	30.00	512Mb x64	512Mx8	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
SPI5126SV325838NJ	4GB	30.00	512Mb x64	256Mx8	1866MT/s	1.35V	-40°C to +85°C
SP5126SV351816MP	4GB	30.00	512Mb x64	512Mx8	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
SP5126SV351816SE	4GB	30.00	512Mb x64	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI5126SV351816SE1	4GB	30.00	512Mb x64	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP5126SV321616NE	4GB	30.00	512Mb x64	256Mx16	1600MT/s	1.35V	0°C to +70°C
SP5126SV321616SE	4GB	30.00	512Mb x64	256Mx16	1600MT/s	1.35V	0°C to +70°C

Ordering Information

204 PIN - DDR3 Non-ECC SODIMM Continued							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP2566SV321638NE	2GB	30.00	256Mb x64	256Mx16	1866MT/s	1.35V	0°C to +70°C
SP2566SV321638SE	2GB	30.00	256Mb x64	256Mx16	1866MT/s	1.35V	0°C to +70°C
SP2566SV325838NJ	2GB	30.00	256Mb x64	256Mx8	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
SP2566SO321616SE	2GB	30.00	256Mb x64	256Mx16	1600MT/s	1.5V	0°C to +70°C
SP2566SV321616MP	2GB	30.00	256Mb x64	256Mx16	1600MT/s	1.35V	0°C to +70°C
SP2566SV321616SE	2GB	30.00	256Mb x64	256Mx16	1600MT/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 SORDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP1027SL351838NE	8GB	30.00	1Gb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP1027SL351816SE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI1027SL351816NE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI1027SL351816SE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP1027SR351893NE	8GB	30.00	1Gb x72	512Mx8	1333MT/s	1.5V	0°C to +70°C
SP5127SL351816NE	4GB	30.00	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP5127SL351816SE	4GB	30.00	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI5127SL351816NE	4GB	30.00	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI5127SL351816SE	4GB	30.00	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
204 PIN - DDR3 ECC SOUDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP2047SV310816GB	16GB	30.00	2Gb x72	1Gx8	1600MT/s	1.35V	0°C to +70°C
SPT2047SV310816GB	16GB	30.00	2Gb x72	1Gx8	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
SP1027SV351816SE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI1027SV351816NE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI1027SV351816SE	8GB	30.00	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP5127SV351838NE	4GB	25.40	512Mb x72	512Mx8	1866MT/s	1.35V	0°C to +70°C
SP5127SV351816SE	4GB	25.40	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI5127SV351816NE	4GB	25.40	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SPI5127SV351816SE	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
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
SP2566MP321638MP	2GB	22.25	256Mb x64	256Mx16	1866MT/s	1.35V	0°C to +70°C
SP2566MP321638NE	2GB	22.25	256Mb x64	256Mx16	1866MT/s	1.35V	0°C to +70°C
SP2566MP321638SE	2GB	22.25	256Mb x64	256Mx16	1866MT/s	1.35V	0°C to +70°C
SPT2566MP321638NE	2GB	22.25	256Mb x64	256Mx16	1866MT/s	1.35V	-40°C to +85°C



For more information, please visit: www.smartm.com

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Headquarters/North America:

T: (+1) 800-956-7627 • T: (+1) 510-623-1231

F: (+1) 510-623-1434 • E: info@smartm.com

Latin America:

T: (+55) 11 4417-7200 • E: sales.br@smartm.com

Asia/Pacific:

T: (+65) 6678-7670 • E: sales.asia@smartm.com

EMEA:

T: (+44) 0 7826-064-745 • E: sales.euro@smartm.com

Customer Service:

T: (+1) 510-623-1231 • E: customers@smartm.com