



DuraMemory™

Mini-DIMM

SMART Modular Technologies' DDR4 and DDR3 Mini-DIMM memory modules are capable of operating at high data transfer rates within a small form factor. The advantage of Mini-DIMMs is their versatility across many different applications such as networking, telecom, industrial, and storage.

Mini-DIMMs are designed with additional power and ground pins compared to SODIMMs for reliable operation in telecom, networking and industrial applications. They save up to one-third the board space of SO-DIMM when used with a vertical or 22.5° angled socket and are ideal for very dense system boards. SMARTModular's Mini-DIMMs are available in Industrial Grade.



Features & Benefits

- Small form factor, 80mm length, variable heights (standard, ULP, VLP)
- Extra power & ground pins vs. SODIMMs - higher reliability and better signal integrity
- More robust latched connector vs. SODIMMs

Applications

- Networking and Telecom
- Industrial, Computing, and Storage
- ATCA Blades

Ordering Information

288-PIN - DDR4 Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST2047MR410893HD	16GB	30.00	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MR410893SC	16GB	30.00	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MR451893SF	8GB	30.00	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 ULP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST1027MR410893SCU	8GB	17.78	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST5127MR451893SFU	4GB	17.78	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C

DDR4 Ordering Information

288-PIN - DDR4 VLP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST4097MR44D814SAV	32GB	18.75	4Gb x72	2Gx8	2933MT/s	1.2V	0°C to +70°C
ST4097MR44D893SAV	32GB	18.75	4Gb x72	2Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MR420825SAV	16GB	18.75	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047MR420893SAV	16GB	18.75	2Gb x72	2Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MR410893SCV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST5127MR451825SFV	4GB	18.75	512Mb x72	512Mx8	3200MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 ULP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST4097MU44D814SAU	32GB	17.78	4Gb x72	2Gx8	2933MT/s	1.2V	0°C to +70°C
ST4097MU44D893SAU	32GB	17.78	4Gb x72	2Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MU410893SCU	8GB	17.78	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 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
ST4097MU44D825SAV	32GB	18.75	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST4097MU44D893SAV	32GB	18.75	4Gb x72	2Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MU420825SAV	16GB	18.75	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047MU410893HDV	16GB	18.75	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MU410893SCV	16GB	18.75	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MU420893SAV	16GB	18.75	2Gb x72	2Gx8	2666MT/s	1.2V	0°C to +70°C
STI2047MU410872SCV	16GB	18.75	2Gb x72	1Gx8	2400MT/s	1.2V	-40°C to +85°C
ST1027MU410893HDV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MU410893SCV	8GB	18.75	1Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MU451893MFV	8GB	18.75	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST1027MU451893NEV	8GB	18.75	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST1027MU451893SFV	8GB	18.75	1Gb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
STI1027MU410872SCV	8GB	18.75	1Gb x72	1Gx8	2400MT/s	1.2V	-40°C to +85°C
ST5126MU451893SFV	4GB	18.75	512Mb x64	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST5127MU451893HBV	4GB	18.75	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C
ST5127MU451893SFV	4GB	18.75	512Mb x72	512Mx8	2666MT/s	1.2V	0°C to +70°C

DDR3 Ordering Information

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
288-PIN - DDR3 ULP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SP1027MV351816SEU	8GB	17.78	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
244 PIN - DDR3 VLP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
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
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

DDR3 Ordering Information

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 Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SP1027ML351816MPU	8GB	17.78	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SP1027ML351816SEU	8GB	17.78	1Gb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI1027ML351816SEU	8GB	17.78	1Gb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C

244 PIN - DDR3 ECC VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SP5127ML351816SEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	0°C to +70°C
SPI5127ML351816SEV	4GB	18.75	512Mb x72	512Mx8	1600MT/s	1.35V	-40°C to +85°C
SP2567MU325838NJV	2GB	18.75	256Mb x72	256Mx8	1866MT/s	1.5V	0°C to +70°C



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

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