



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.



Applications

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

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

DDR4 Ordering Information

288-PIN - DDR4 Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST2047MR410893SG	16GB	30.00	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST2047MR410893HE	16GB	30.00	2Gb x72	1Gx8	2666MT/s	1.2V	0°C to +70°C
ST1027MR451893SG	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	Comp Config	Speed	Voltage	Temp*
ST4097MR420825MFU	32GB	17.78	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047MR410825SGU	16GB	17.78	2Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
288-PIN - DDR4 VLP Mini-RDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
ST2047MR420825SCV	16GB	18.75	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C

* Reflects Operating Ambient Temperature

DDR4 Ordering Information

288-PIN - DDR4 Non-ECC VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST5126MU451825SGV	4GB	18.75	512Mb x72	512Mx8	3200MT/s	1.2V	0°C to +70°C

288-PIN - DDR4 ECC VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Comp Config	Speed	Voltage	Temp*
ST4097MU420825MFV	32GB	18.75	4Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST2047MU420825SCV	16GB	18.75	2Gb x72	2Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027MR410825SGV	8GB	18.75	1Gb x72	1Gx8	3200MT/s	1.2V	0°C to +70°C
ST1027MU451893SGV	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

* Reflects Operating Ambient Temperature

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

244 PIN - DDR3 ECC ULP 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

244 PIN - DDR3 ECC VLP Mini-UDIMM							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp*
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

* Reflects Operating Ambient Temperature



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

*Product images are for promotional purposes only. Labels may not be representative of the actual product.

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