

# DDR4 & DDR3 LRDIMM

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SMART Modular Technologies' DDR3 and DDR4 load-reduced dual in-line memory modules (LRDIMMs) use a distributed buffer approach so that high-speed memory controllers in CPUs can drive larger quantities of memory. There are also specific configurations, such as when using three DIMMs per channel, that require LRDIMMs.

SMART supports a wide lineup of DDR4 LRDIMMs ranging from 16GB to 128GB. The current speed grades supported are DDR4-2133 to DDR4-2666. For OEMs requiring a range of LRDIMM density options, SMART can provide a smooth continuity of supply. SMART helps minimize supply chain disruptions by self-qualifying new die revs and providing multi-sourced DRAM options.

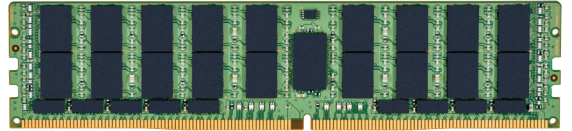
For OEMs with mission-critical requirements SMART offers Enterprise Grade LRDIMMs to significantly minimize the risk of DRAM failures in deployed systems.

SMART also offers a selection of Value Memory modules in its LRDIMM series. Value Memory modules are cost-effective Tier 1 ODM JEDEC-standard memory modules. SMART buys its finished lineup of commodity memory modules directly from Tier 1 DRAM suppliers. These are the most commonly used modules for standard server computing and storage applications.

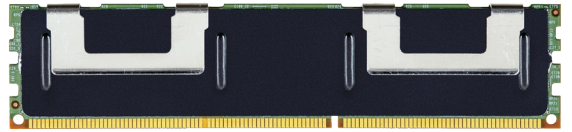
### Features & Benefits

- JEDEC standard
- High speed data rates
  - DDR4-2666, 2933
  - DDR3-1600

### DDR4 LRDIMM



### DDR3 LRDIMM



### Applications

- Ideal for data centers requiring large amounts of server memory
- Ideal for three DIMM per channel server configurations
- Enterprise Grade LRDIMMs available for mission critical applications

## DDR4 Memory Modules

### 288-PIN - DDR4 LRDIMM\*

SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST1637LR420414-SM	128GB	31.25	16Gb x72	4Gx4	2933MT/s	1.2V	0°C to +70°C
SH1637LR420423-HM	128GB	31.25	16Gb x72	2Gx4	2666MT/s	1.2V	0°C to +70°C
ST8197LR420414-SC	64GB	31.25	8Gb x72	2Gx4	2933MT/s	1.2V	0°C to +70°C
SH8197LR420493-SC	64GB	31.25	8Gb x72	2Gx4	2666MT/s	1.2V	0°C to +70°C
ST4097LR420493SC	32GB	31.25	4Gb x72	2Gx4	2666MT/s	1.2V	0°C to +70°C
ST2047LR410493SE	16GB	31.25	2Gb x72	1Gx4	2666MT/s	1.2V	0°C to +70°C

## DDR3 Memory Modules

### 240-PIN - DDR3 LRDIMM\*

SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SH4097LV32D416TCN	32GB	30.35	4Gb x72	1Gx4	1600MT/s	1.35V	0°C to +70°C
SP4097LV32D416MPN	32GB	30.35	4Gb x72	1Gx4	1600MT/s	1.35V	0°C to +70°C



\*The modules noted above are Value Memory parts. For DDR4 LRDIMM Value Memory, please visit [smartm.com/DDR4valuememory](http://smartm.com/DDR4valuememory).  
For DDR3 LRDIMM Value Memory, visit [smartm.com/DDR3valuememory](http://smartm.com/DDR3valuememory)

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