SMART’s Memory Solutions

DDR4 NVDIMM

featuring SafeStor™ technology

DDR4 NVDIMM

SMART’s DDR4 NVDIMMs combine non-volatile memory functionality with the latest DDR4 DRAM technology. DDR4 NVDIMMs are designed to provide a persistent memory solution while improving application performance and data integrity in server and storage environments.

SMART’s DDR4-2133 NVDIMMs feature proprietary SafeStor™ technology, the engine which initiates backup and restore operations upon command from the host controller. The NVDIMM modules also support multiple command delivery options to trigger SafeStor™ backup during a host-detected power outage and recovery events. The SafeStor™ engine also employs multi-channel fast NAND and high-speed switching circuitry to provide robust backup and restore capability, all while functioning as a JEDEC standard DDR4 RDIMM during normal operation.

Features

- Fits JEDEC standard 288-pin DIMM form factor
- During normal operation, NVDIMM will function as a standard RDIMM module (supports JEDEC standard SPD Data)
- System upon power-loss, must place the DRAM in self-refresh operation (in current design offering)
- Backup initiated using either side-band signals or I2C interface
- DDR4 Mode Register values will be restored during hand-off

Applications

High performance servers
- Database and Analytics servers
- Image editing systems, movie rendering and CAD systems
- Real-time response in financial trading & social media

High performance storage servers
- SAN Appliances and Arrays
- NAS Filers
- Distributed Storage systems
- High performance replacement for existing NVRAM PCIe cards

DDR4 NVDIMM Memory Modules

<table>
<thead>
<tr>
<th>DDR4 NVDIMM</th>
<th>SMART Part Number</th>
<th>Density</th>
<th>Height (mm)</th>
<th>Module Config.</th>
<th>Device Type</th>
<th>Voltage</th>
<th>Speed</th>
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