



Dell PowerEdge Boot Optimized Storage Solution – BOSS

Dell PowerEdge servers offer a scalable business architecture that can help you adapt to your changing business realities and can be fine-tuned to address your specific workloads from traditional infrastructure to Hyper-Converged Infrastructure (HCI) and software defined storage (SDS). The latest generation of Dell PowerEdge servers provides a simpler, more economical way to segregate operating system (OS) and data on server-internal storage. BOSS utilizes one or two read-intensive (Boot Class) M.2 SATA Solid State Devices (SSDs) which can be used in “pass-thru” or two devices in Hardware RAID 1 (mirroring).

Many customers, particularly those implementing HCI and SDS, prefer to separate their OS drives from data drives and require Hardware RAID Mirror (RAID1) for their operating system drives. The BOSS solution provides this separate HWRAID functionality for the

OS drives while also freeing up additional drive slots to be used for ‘data set’ devices.

Management Tools

Dell offers management applications that enable you to manage and configure your server RAID system, create and manage the disk group, and provide online maintenance. The management applications for BOSS-S1 card include:

- **Unified Extensible Firmware Interface (UEFI) RAID Configuration Utility** – Storage management application integrated into the System BIOS (F2). See UEFI/HII RAID configuration utility guide for details.
- **Dell OpenManage Storage Management** – Enables you to perform controller and enclosure functions for all the supported the RAID controllers and enclosures from a single graphical or command-line interface. For more information, see the [Dell OpenManage Storage Management User’s Guide](#).

BOSS offers the following features to streamline OS and data storage management:

- Fast initialization
- Foreign Import
- SMART Info
- Auto-Rebuild
- Non-RAID migration
- TRIM (Non-RAID PD)

BOSS-S1 specifications

Features	Technical Specification
RAID Levels	RAID 1
Support for Non-RAID disks	Yes (supports up to two disks)
Stripe Size	64K
Battery Back Unit	NO
Non-Volatile Cache	NO
VD Cache function	Write Through only
Maximum number of virtual disks	1
Maximum number of virtual disks per disk group	1
Maximum number of drives supported	2
Drive Type	6Gbps M.2 SATA SSDs
PCIe Support	Gen 2
Disk Cache Policy	Drive Default
TRIM	Non-RAID Disk mode only

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