

WHY SOLID STATE DRIVES?

Reliability & Durability

- No moving parts to break
- Greater shock resistance
- Reduced IT cost
- Less heat generation

Less Power

- Longer battery life

Performance

- Faster Application response time
- Faster Boot/Shutdown times
- Faster image deployment
- Faster data wipe (security)



Hard Disk Drives vs. Solid-State Drives

HARD DISK DRIVES	SOLID STATE DRIVES
More fragile due to rotating platters and mechanical arms.	More rugged because there are no moving parts.
Reduced battery life due to high energy consumption.	Longer battery life and cooler machines due to reduced energy consumption.
Decreased performance as file fragmentation increases.	Consistent performance because fragmentation is not an issue.
Greater risk of data loss and hard disk failure when transported.	More resistant to the bumps and drops expected from mobile users.
Slower responsiveness and performance due to drive spin-up time and mechanical arm movement.	Faster responsiveness and performance due to no drive spin-up time, no mechanical movement and minimal latency.

*Source: Intel "Improving the Mobile Experience with Solid-State Drives" White Paper