

## Intel<sup>®</sup> Smart Response Technology User Guide

## **Intel Smart Response Technology**

Intel® Smart Response Technology is an Intel® Rapid Storage Technology (Intel® RST) caching feature that improves computer system performance. It requires that the SATA controller be set to **RAID mode** via the system BIOS. It allows you to configure computer systems with an SSD used as cache memory between the hard disk drive and system memory.

Intel Smart Response Technology caching is implemented as a single drive letter solution; no additional drive letter is required for the SSD device used as cache.

## A Important

- All data on the SSD you use will be wiped when you accelerate the other drives.
- Only one volume can be accelerated at a time.
- When you enable Intel Smart Response Technology, do not enable BIOS > SETTINGS > Advanced > Windows OS Configuration > Fast Boot.

## **Enabling Intel Smart Response Technology**

- 1. Install your SSD and HDD.
- 2. Power on your computer and press **DEL** when POST to enter BIOS.
- 3. Set the SATA mode option to RAID mode in BIOS.
- 4. Press the F10 key to save settings.
- Reboot and press Ctrl + I keys to enter the IRST Option ROM during the POST, the following window will appear.

Create RAID     C. Delete RAID     S. Reset Disks t	Volume Volume o Non-RAID (DISK / VOLUME	MENU] 4. Re 5. Ac 6. Ex INFORMATION	ecovery Volume Options eccleration Options it ]
RAID Volumes : None defined.			
Physical Devices : Port Device Model 1 XXXX-XXXXXXX 2 XXXX-XXXXXXX	Serial # xxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxx	XXX.XGB XXX.XGB	Size Type/Status (Vol ID) Non-RAID Disk Non-RAID Disk
[ ↑ ] ] - Select	[ESC] - Ex	it	[ENTER] - Select Menu

- Make sure the information under RAID Volumes indicates None defined. If it shows a RAID volume, delect it with Delete RAID Volume menu option.
- 7. Reboot your computer and install Windows 7/8.1/10 on the HDD.
- 8. Install all required device drivers.
- 9. Install the Intel RST software.

- **10.** Run the Intel RST software through the **All Programs** menu or the task bar icon.
- 11. Click Enable acceleration under the Accelerate tab.

⊘ Intel® Rapid Storage Technology				
Status Manage	intel			
Smart Storage Caching				
Your storage system can be accelerated using an available solid-state drive as a cache device in order to improve the overall performance.				
Enable acceleration 2				
Mo	re help on this page			

**12.** Select the size from the SSD to be allocated for the cache memory.

Enable Acceleration			
Select the solid-state drive you want to use to accelerate your storage system:			
SSD on port 2: 19 GB			
Select the size allocated for the cache memory:			
● Full disk capacity (maximum 64 GB)			
Select the disk or volume to accelerate:			
Volume0 (596 GB) (system)			
<ol> <li>Select the boot disk or volume for optimal system acceleration.</li> </ol>			
Select the acceleration mode:			
Enhanced mode     Maximized mode			
More help OK Cancel			

- **13.** Select the drive to be accelerated. It is highly recommended to accelerate the **system disk** for maximum performance.
- 14. Select the acceleration mode. By default, enhanced mode is selected.

Enhanced mode: Acceleration is optimized for data protection.

*Maximized mode:* Acceleration is optimized for input/output performance.

**15.** Click **OK**. The page refreshes and reports the new acceleration configuration in the acceleration view. Your computer is now successfully configured with the Intel Smart Response Technology.