

Intel® X79 Series Motherboard Technical Updates

Intel® Smart Response Technology

Intel® Smart Response Technology boosts overall system performance. It uses an installed SSD >=20GB as a cache for frequently accessed operations, speeding up hard drive/main memory interaction.



- Only internal SATA ports from Intel® support Intel® Smart Response Technology.
- To support Intel® Smart Response Technology on the X79 platform, please make sure the BIOS version is 33xx (34xx for ROG series) or higher and the Intel® IRST driver version is V11.7.x.xxxx or higher.
- Back up all your data before using the following procedures to prevent data loss. Doing the following will install a new operating system.

Setting up your system for IRST installation

Configure your BIOS then load the IRST driver before installing Intel® Smart Response Technology into your system.

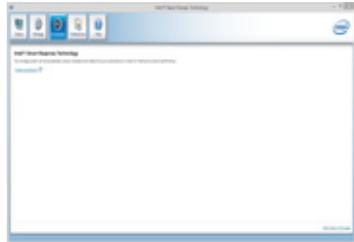
1. Enter the BIOS setup during POST.
2. Go to the **Advanced** menu > **SATA Configuration** to set the SATA Mode BIOS item to **RAID mode**.
3. Go to the **Boot** menu, set **Launch CSM** to **Enabled** and **Boot from Storage Devices** to **UEFI driver first** then press <Enter>.
4. Copy the **IRST v11.7.x.xxxx 32/64 bit driver** file from the support DVD or official website then save to your USB flash drive.
5. Begin installation of your operating system. During installation, make sure to load the **IRST v11.7.x.xxxx 32/64 bit driver** file from your USB flash drive.

Installing Intel® Smart Response Technology

1. Place the support DVD to the optical drive. If Autorun is enabled in your computer, the DVD automatically displays the installation wizard.
2. Click the **Drivers** tab, then click Intel® Rapid Storage Technology Driver software.
3. Follow the onscreen instructions to complete the installation.

Using the Intel® Smart Response Technology

1. Click **Accelerate** to launch Smart Response Technology settings.



2. Do the following:
 - a. Select the SSD you want to use to accelerate your storage system.
 - b. Select the size allocated for SSD caching.
 - c. Select the hard drive to accelerate.
 - d. Select any of these enhanced modes:



Enhanced mode: WRITE THROUGH, write to SSD and HDD at the same time.

Maximized mode: WRITE BACK, write to SSD and write back to HDD in a later time.

3. Select **Disable Acceleration** to disable this function, and select **Change Mode** to switch acceleration mode to Enhanced/Maximized.



- To enable Intel® Smart Response Technology, you need at least one SSD ($\geq 20\text{GB}$) and an HDD. Only one SSD can be assigned for caching.
- If you want to restore the OS, go to BIOS Option ROM > Acceleration Options and remove the Disks/Volume Acceleration to disable Intel® Smart Response Technology.
- If you have set the caching size above the maximum 64GB on your SSD, you can still use the available storage space for normal storage.

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