

DSRD – Dos Samsung Re-Drive

Dell Only

Firmware Download Guide

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1. Applicable Drive Models

Model	P/N	Current F/W
2.5" 7mm	MZ7TE128HMGR-000D1 MZ7TE256HMHP-000D1 MZ7TE512HMHP-000D1	EXT06D0Q
mSATA	MZMTE128HMGR-000D1 MZMTE256HMHP-000D1 MZMTE512HMHP-000D1	EXT48D0Q
M.2	MZNTE128HMGR-000D1 MZNTE256HMHP-000D1 MZNTE512HMJH-000D1	EXT23D0Q

2. Applicable Firmware Versions

Model	Existing version	Upgraded version
2.5" 7mm	EXT06D0Q	EXT07D0Q (No Format)
mSATA	EXT48D0Q	EXT49D0Q (No Format)
M.2	EXT23D0Q	EXT24D0Q (No Format)

1. System & Tool Requirements

1. Your system (Notebook or PC)
2. DSRD Tool (DSRD.zip)
 - * FW update Tool is called DSRD in this document.

3. Bootable USB Drive *

*-- Please set your USB drive into a “bootable” state before commencing firmware download. For assistance on completing this step, please refer to a USB boot utility from a trusted internet site (e.g., search for “USB Boot Utility” via search engine).

2. Limitations

1. AHCI or ATA mode must be enabled in BIOS for successful download. The DSRD application automatically detects either AHCI or ATA mode and progresses accordingly.
2. Removal of disks when the application is running on PCs with chipsets such as ICH5 or ICH6 that do not support the “hot plug” feature (enables plug and play) may cause disruption of the DSRD utility.
3. This tool is only for the products mentioned in the Applicable Drive Model list of previous page, so we do not guarantee with any other products.

[Warning]

"DEVICE MUST BE PLUGGED IN AT ALL TIMES DURING THE FIRMWARE UPDATE PROCESS OR ELSE DEVICE MAY BE PERMANENTLY DAMAGED AND RENDERED INOPERABLE."

"YOU MUST BACK UP ALL DATA ON THE DRIVE AS THE FIRMWARE UPDATE PROCESS WILL ERASE ALL PRE-EXISTING DATA"

(Preparation)

1. Extract all provided zip files to the Bootable USB Drive (extract to the root directory).
This will create a DSRD folder on the USB drive.
2. Set USB as the first priority among the booting priority of your system.
→ Refer to your system guide.
3. Turn system (PC) power off.

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(FW download Start)

1. Turn system power on and boot up through the USB.
 - i) Check boot priority settings in your system BIOS if your system cannot boot with USB drive.
 - ii) DSRD application will execute only in IDE and AHCI modes of ATA / SATA / AHCI controllers. Please check the BIOS setting and set drive mode configuration to Native IDE / AHCI modes.

2. Execute DSRD.EXE in DSRD folder.

```
C:\>
C:\>cd DSRD
C:\DSRD>DSRD262.exe
```

3. The message below will automatically appear. Press any key to continue.

```
-----
#                               Samsung Electronics                               #
#                               Samsung Re-Drive : SSD Firmware Download Utility      #
#                               VERSION : 2.6.2 Samsung Electronics © 2013          #
-----
```

WARNING:
 DEVICE MUST BE PLUGGED IN AT ALL TIMES DURING THE FIRMWARE UPDATE PROCESS
 OR ELSE DEVICE MAY BE PERMANENTLY DAMAGED AND RENDERED INOPERABLE.

Press any key to continue....

4. Once the screen below is displayed, do not press any key since below screen will be automatically passed.

[Example] mSATA

```

-----
#                               Samsung Electronics                               #
#                               Samsung Re-Drive : SSD Firmware Download Utility      #
#                               VERSION : 2.6.2 Samsung Electronics © 2013          #
-----

```

DISK(s) DETECTED

#	Disk Model	Serial Number	Firmware
[1]	SAMSUNG SSD PM851 mSATA XXXGB	XXXXXXXXXXXXXXXXXXXX	EXT48D0Q

5. Once the screen below is displayed, please press 'y' and hit 'enter' to continue.
Model and Firmware Version can be different with below picture.

```

-----
#                               Samsung Electronics                               #
#                               Samsung Re-Drive : SSD Firmware Download Utility      #
#                               VERSION : 2.6.2 Samsung Electronics © 2013          #
-----

Disk: 1
-----
Serial Number   : xxxxxxxxxxxxxxxx
Model          : SAMSUNG SSD PM851 mSATA XXXGB
Firmware Version : EXT48D0Q
-----

Download firmware onto this disk? [Y/N] : y

```

6. Once the screen below is displayed, please press 'y'. Before hitting 'enter,' please verify that you have backed up all pre-existing data on the device. This will begin the download process.

```

-----
#                               Samsung Electronics                               #
#                               Samsung Re-Drive : SSD Firmware Download Utility      #
#                               VERSION : 2.6.2 Samsung Electronics © 2013          #
-----

Disk: 1
-----
Serial Number   : xxxxxxxxxxxxxxxx
Model          : SAMSUNG SSD PM851 mSATA XXXGB
Firmware Version : EXT48D0Q
-----

Download firmware on this disk? [Y/N] : y

WARNING:
YOU MUST BACK UP ALL DATA ON THE DRIVE AS THE FIRMWARE UPDATE PROCESS
WILL MAY CAUSE THE LOSS OF ALL PRE-EXISTING DATA

Please take backup of all data on the disk before proceeding...
Do you want to continue? [Y/N] : y

```

7. Once download is complete, the below message will appear.

```
# Samsung Electronics #
# Samsung Re-Drive : SSD Firmware Download Utility #
# VERSION : 2.6.2 Samsung Electronics © 2013 #
```

Disk: 1

```
Serial Number   : xxxxxxxxxxxxxxxx
Model          : SAMSUNG SSD PM851 mSATA XXXGB
Firmware Version : EXT4SD0Q
```

Download firmware on this disk? [Y/N] : y

WARNING:
YOU MUST BACKUP ALL DATA ON THE DRIVE AS THE FIRMWARE UPDATE PROCESS
WILL MAY CAUSE THE LOSS OF ALL DATA

Please take backup of all data on the disk before proceeding...

Do you want to continue? [Y/N] : y

Downloading F/w

Firmware has been successfully upgraded!

New Firmware : EXT49D0Q

Please, Press any key to continue...

[WARNING]

DO NOT PRESS ANY OTHER KEY such as ESC, Power Button, etc unless you see the "Firmware has been successfully updated!!" message even though progress dot is marked slowly.

8. DSRD will be terminated with below screen.

#

Exiting Samsung Re-Drive

Samsung Electronics © 2013

```
C:\DSRD> _
```

9. Turn off the system power after download completion. You now have latest firmware version on your SSD!

10. The download tool will skip the firmware update process if the upgraded firmware version is already installed on the drive.

If you execute DSRD again when your SSD has the latest FW, you will see the screen like below after step 4.

```

-----
#                               Samsung Electronics                               #
#       Samsung Re-Drive : SSD Firmware Download Utility                       #
#       VERSION : 2.6.2 Samsung Electronics © 2013                           #
-----

Disk: 1
-----
Serial Number   : xxxxxxxxxxxxxxxx
Model          : SAMSUNG SSD PM851 mSATA XXXGB
Firmware Version : EXT49D0Q
-----
Firmware is already updated on this SSD!

Please, Press any key to continue...
```

Then, DSRD will be terminated.

Q1: Why does the DSRD application take such a long time to open?

A1: Once launched, the DSRD application is programmed to detect disks connected to the system. This may require a few minutes depending on the number of disks connected to the system and the hardware platform.

Q2: Why does a success message appear if the DSRD application does not actually download the firmware?

A2: This may be due to one of the following issues:

- a. You may have downloaded the wrong firmware file. Please verify that the appropriate firmware version is being used for the current SSD model.
- b. The firmware files may be residing on the target disk itself. If this is the case, please move the firmware files to a drive other than the SSD being upgraded.

Q3: Why is my drive not being detected once the system boots?

A3: It is possible that some DOS versions do not recognize FAT32 file systems. Please verify that the drive has a FAT16 file system with necessary files and retry. Please refer to your Windows user manual for assistance on creating a FAT16 file system or partition.