## Samsung Magician 8

## Installation Guide

Revision 1.5

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## **Revision History**

Revision Number	Description	Revision Date
1.0	Initial Release	Sep 2021
1.1	Bug fix, Security improvement	Dec 2021
1.2	New features included, User Instructions Improved	Mar 2022
1.3	New features included (LED Setting, Data Migration)	Sep 2022
1.4	Data Migration feature improved	Mar 2023
1.5	New features included, User Instructions Improved	Sep 2023

## 1. Introduction

### **New Samsung Magician 8**

Experience the new user-friendly GUI of Samsung Magician. Try our new features and enhanced functions for better user experience. Samsung Magician provides an integrated convenient solution for SSD with advanced capabilities.

Samsung Magician software is developed and distributed exclusively for users of Samsung Solid Sate Drives (SSDs).

#### **New Features**

New Samsung Magician features a number of improvements over the previous versions.

- New features include:
  - Newsroom You can view all the YouTube and Instagram contents related to Samsung memory products.
  - System Details You can view all the details of BIOS, Motherboard, Operating System and Drive related information.
  - Notice You can view all the Software and Firmware update related notices.

## 2. Requirements and Support

## System Requirements

Component	Requirements		
	Windows 10 or higher		
Operating System	macOS High Sierra 10.13 or higher		
Disk Capacity	Minimum 600MB available for installation		
Supported Partition Types	MBR, GPT		
	English, Korean, Spanish, German, Japanese,		
Supported Languages	Chinese(Simplified), French, Italian,		
	Portuguese, Russian		
	The following Samsung SSDs are supported*:		
	Samsung SSD 990 EVO (M.2)		
	Samsung SSD 990 PRO with Heatsink(M.2)		
	Samsung SSD 990 PRO (M.2)		
	Samsung SSD 980 PRO with Heatsink(M.2)		
	Samsung SSD 980 (M.2)		
	Samsung SSD 980 PRO (M.2)		
	Samsung SSD 970 PRO (M.2)		
	Samsung SSD 970 EVO (M.2) Samsung SSD 970 EVO Plus (M.2)		
	Samsung SSD 960 PRO (M.2)		
	Samsung SSD 960 EVO (M.2) Samsung SSD 950 PRO (M.2)		
SSD	Samsung SSD 870 QVO		
	Samsung SSD 870 EVO		
	Samsung SSD 860 PRO		
	Samsung SSD 860 EVO (2.5", mSATA, M.2)		
	Samsung SSD 860 QVO		
	Samsung SSD 850 PRO		
	Samsung SSD 850		
	Samsung SSD 850 EVO (2.5", mSATA, M.2)		
	Samsung SSD 840 PRO		
	Samsung SSD 840 EVO (2.5", mSATA)		
	Samsung SSD 840 Series		
	Samsung SSD 830 Series		
	Samsung SSD 750 EVO		
	Samsung Portable SSD Series		

## Supported Features by model

## There are some limitations that exist depending on the type of storage and model.

							Features						
Model	Drive Info.	SMART	Perfor mance Bench mark	RAPID	Perfor mance Optimiz ation (TRIM)	Diagno stic Scan	PSID Revert	Encryp ted Drive	Over provisi oning	LED Settin g	Secure Erase	Securit y Setting	Data Migrat ion
840 PRO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$					$\checkmark$		$\checkmark$		$\checkmark$
840	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$				$\checkmark$		$\checkmark$		$\checkmark$
840 EVO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
750 EVO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
850 PRO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
850 EVO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
950 PRO	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
960 PRO	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
960 EVO	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
850	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
860 PRO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
860 EVO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
970 PRO	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
970 EVO	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
860 QVO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
970 EVO Plus	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
870 EVO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
870 QVO	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
980	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
980 PRO	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
980 PRO with Heatsink	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
990 PRO	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
990 PRO with Heatsink	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
990 EVO	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
Samsung PSSD T1	$\checkmark$	$\checkmark$				$\checkmark$						$\checkmark$	
Samsung PSSD T3	$\checkmark$	$\checkmark$				$\checkmark$						$\checkmark$	

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Samsung PSSD T5	$\checkmark$	$\checkmark$			$\checkmark$				$\checkmark$	$\checkmark$
Samsung PSSD T7	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Samsung PSSD T7 Touch	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Samsung PSSD T7 Shield	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Samsung PSSD T9	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Samsung PSSD X5	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$				$\checkmark$	
Samsung PSSD T5 EVO	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$				$\checkmark$	$\checkmark$
Samsung SD Card	$\checkmark$									
Samsung UFD	$\checkmark$		$\checkmark$							

## **RAPID mode Requirements**

Component	Requirements		
Operating System	Windows 10 or higher		
	Samsung SSD 870 EVO		
	Samsung SSD 870 QVO		
	Samsung SSD 860 PRO		
	Samsung SSD 860 EVO (2.5", mSATA, M.2)		
	Samsung SSD 860 QVO		
SSD	Samsung SSD 850 PRO		
	Samsung SSD 850 EVO (2.5", mSATA, M.2),		
	Samsung SSD 850		
	Samsung SSD 840 PRO		
	Samsung SSD 840 EVO (2.5", mSATA),		
	Samsung SSD 750 EVO		
Processor	1GHz or faster		
System memory(DRAM)	2GB RAM or more		
Free Disk Space	Minimum 50MB		
File System	NTFS		

### **Driver Support**

#### 1) SATA

Chipset	Driver	Supported
Intel	Microsoft	Yes
inter	Intel	Yes
	Microsoft	Yes
AMD	AMD	Yes(With Latest Driver)
	NVIDIA	Yes

#### 2) NVMe

Driver	Supported
Samsung	Yes
Microsoft	Yes

- Samsung Magician does not require internet connection to run. However, the internet connection is required to get updates for the latest Firmware, Feature modules or application and to authenticate the SSDs.
- 2) If you delete some files of New Samsung Magician without internet connection, some features like certification or configuration may not work properly and cause limitations in use of New Samsung Magician.



- 3) The SSD should not be disconnected from the system while FW Update, Benchmarking, Secure Erase, Over Provisioning, Encrypted Drive, PSID Revert, Diagnostic scan, Performance Optimization, Data Migration or RAPID features are in progress. Doing so could result in data corruption.
- 4) All parallel operations should be terminated before executing Diagnostic scan, Performance Optimization, Data Migration or Benchmarking features.
- 5) Data corruption may result if the user terminates the Magician application abnormally while Benchmarking, FW Update, Secure Erase, Diagnostic scan, Over Provisioning, Encrypted Drive, PSID Revert, Data Migration or RAPID features are in progress.
- 6) There is always the risk of data loss when updating SSD firmware. It is imperative that the user back up any important data before performing a firmware update.
- 7) If there are some system issues for Magician to perform functions, System Compatibility in Drive Details tab will provide guide to fix the issues.
- 8) If Samsung Magician is under a proxy network environment, it may not provide the full functionality such as firmware update.
- 9) In order for Samsung Magician to function properly, the time of the PC needs to be correctly set.

## 3. General Limitations

## Overall

- 1) Magician does not work with SSDs connected via the SCSI controller interface.
- 2) Only MBR and GPT partition types are supported. Magician may not work with other partition types.
- 3) Magician shows only volumes mounted with letter.
- 4) Magician will not work on SSDs that are locked with a user password.
- 5) The user may need to manually refresh for Magician to accurately reflect all connected/removed disks.
- 6) RAID on mode in SATA configuration is not supported by Samsung Magician and USB bootable solution.
- 7) If you are using any custom storage driver, then Magician may not work properly. Please always use the latest storage driver or Microsoft driver.
- 8) In the case of the function where the progress time is displayed Performance benchmark, Diagnostic scan, Data Migration and Performance optimization, changing the system time during the function execution may cause the elapsed time to not appear normally.
- 9) Depending on the resolution or ratio setting of your display, bottom and right side of Samsung Magician may be out of screen.
- 10) For the performance benchmark record that was performed in the previous version of Magician 7.0, some values may be marked as Unknown.
- 11) Magician might have compatibility issues with a certain IRST Driver.
- 12) When RAPID is activated, Restore point warning message is only available in English.
- 13) If Magician gets connected to or disconnected from the PSSD while performing some feature, Magician may not work properly.
- 14) If you try changing the name of security enabled PSSD T1 / T3, the name won't be changed without additional guidance when the wrong password is entered.
- 15) Magician icon may appear unchanged until the icon is updated by the system.
- 16) It may take up to a few seconds for to installer to start.
- 17) It may take time to move from one screen to the next screen in installer.
- 18) Connecting through remote connection will dismiss forcefully magician notification window in windows 11.
- 19) Upon abnormal termination of data migration, it may take time to restore the migration function.
- 20) When failed to install Magician, MacOS only tells you that the installation failed even if the Magician installation failed due to insufficient disk space.
- 21) In MacOS Mojave(10.14) and High Sierra(10.13), the desktop shortcut icon for Samsung Magician is not rendered properly sometimes.
- 22) In MacOS Mojave(10.14) and High Sierra(10.13), installation takes more time than usual because of compatibility issue.
- 23) Installer will not prompt for system extension approval once installation is complete when Magician is installed on OS booted from external disks for OS versions >= 11 (From Bigsur onwards) in M1. As a result, third-party kernel extensions will not be loaded and PSSD will not be detected in the application.
- 24) Installer will prompt for system extension approval and once the approval is complete, the system will restart when Samsung Magician is installed on OS booted from external disks. However, there will be a kernel panic and system does not boot for OS versions >= 11 (From Bigsur onwards). PSSD related kernel extensions will be loaded and application will detect PSSD(s) successfully in case of these OS versions 10.13 (High Sierra), 10.14 (Mojave), 10.15 (Catalina).

- 25) Under certain High DPI configuration the text may not appear correctly in Magician Installer. In order to fix it please change High DPI settings to Override High DPI Scaling behavior by right clicking Magician installer, select Properties, Compatibility then Change High DPI Settings.
- 26) During firmware update, please do not hibernate/sleep/power-off host. It may lead to system error or firmware update failure.

#### **Performance Benchmark**

- 1) Benchmarking may not work with some removable storage devices.
- 2) Performance Benchmark may get timed-out on ASMedia controllers if the driver does not handle multi thread operations (IOs)

### Performance Optimization

- 1) Performance Optimization supports only the NTFS file system.
- 2) Magician does not support TRIM operation for Standard Performance Optimization on Windows 10 and above, as they support native TRIM.

## **Diagnostic Scan**

- 1) Short scan supports only the NTFS file system.
- 2) If the device is locked, both short scan and full scan are not supported.
- 3) When performing Short scan, secure sufficient space of 5GB or more.
- 4) Samsung NVMe driver v3.3 is required to use SMART Self-test in 970 EVO Plus. NVMe Driver is not required from later released models. (980, 980 PRO Series, 990 Series, etc)

#### **PSID Revert**

- SSD supporting PSID Revert is 860 EVO 860 EVO M.2, 860 EVO MSATA, 860 PRO, 860 QVO, 970 EVO Plus, 870 QVO, 870 EVO, 980, 980 PRO, 980 PRO with Heatsink, PSSD T7, PSSD T7 Touch, PSSD T7 Shield, PSSD T9.
- 2) The PSID Revert function can release the encrypted drive using the PSID of the label. After performing PSID Revert, all data on the drive is deleted.

## Secure Erase & Linux Bootable Solution

- 1) While making a bootable solution for Secure Erase, please make sure the Device Manager window is closed.
- 2) In some of the PCs, Bootable Solution may not work properly as expected because of compatibility issue.
- 3) The Bootable solution is not compatible with pure SCSI or SATA NVIDIA/LSI/AMD chipset drivers.
- 4) AHCI or ATA mode must be enabled in the BIOS during PC boot up.
- 5) The Bootable solution may hang if the SSD is removed on PCs that do not support the hot plug feature (e.g. ICH5/6 chipsets).
- 6) The Bootable solution will not work with devices attached via SATA 6Gbps (SATA III) operating in IDE mode.
- 7) Secure Erase may not work on systems where SECURITY FREEZE LOCK is issued by the BIOS.

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## **Encrypted Drive**

- 1) Class 0, TCG Opal and Encrypted Drive cannot be enabled simultaneously. Only one mode can be enabled at a time and all other modes must be disabled.
- 2) Security mode (Class 0, TCG/Opal or Encrypted Drive) must be disabled (unlocked) before removing and installing onto another PC.

### **Over Provisioning**

- 1) Over Provisioning only supports NTFS and raw (Unformatted) partitions.
- 2) Over Provisioning does not support dynamic disks or disks that require 'Chkdsk' operation.
- 3) Magician cannot guarantee that Over Provisioning scans disk's partition layout properly, if partition information had been changed during scanning.
- 4) Over Provisioning may fail, even though enough free space is available, if your system suffers from cluster misalignment.
- 5) If user cannot span or shrink volume size through disk management of OS administration tool, it is possible not to work dynamic over-provisioning properly.
- 6) Windows 'Disk Partition Service' and 'Virtual disk Service' should not be disabled in order to perform Over Provisioning.
- 7) Over Provisioning can only be performed on the last accessible partition (NTFS or raw)
- 8) If a device with more than 4TB applied to the MBR partition is used, the function may not operate normally.

## LED Setting

1) Depending on the status of the SSD, LED setting may not be possible.

## **Security Setting**

- 1) Finding my password is unavailable on Samsung Magician.
- 2) Up to four fingerprints can be registered on Samsung Magician

## **Data Migration**

- 1) Data Migration supports the Windows operating systems listed in the System Requirement only.
- 2) Data Migration supports the Samsung SSDs listed in the System Requirement only. OEM storage devices provided through a computer manufacturer or supplied through another channel are not supported.
- 3) Data Migration can only clone a Source Drive on which an operating system has been installed. It cannot clone a drive without an operating system installed on it.
- 4) When the Source Drive has two or more volumes (e.g. volumes to which drive letters, such as C:, D:, or E:, are assigned), Data Migration can clone the C: volume on which an operating system is

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installed and two more volumes. The System Reserved Partition, which is created automatically during Windows installation, is cloned automatically.

- 5) The OEM Partition, which is created by the computer manufacturer when shipped from the factory, is not cloned. However, it will be automatically cloned if the computer manufacturer is Samsung and SRS (Samsung Recovery Solution) 5, SRS 6, or SRS 7 has been installed. (Versions lower than SRS 5 are not supported.)
- 6) After cloning the Source Drive to the Target Drive, their data sizes may differ by a few gigabytes. This is normal. During cloning, Data Migration does not copy virtual memory (page files, hibernation files, etc.) automatically created and managed by the operating system.
- 7) Data Migration cannot clone encrypted drives. In order to clone an encrypted drive, you must remove its password first.
- 8) If the motherboard chipset drivers are not up to date when cloning, Data Migration may not function properly.
- 9) If you have multiple operating systems installed on your computer (e.g. Windows 7 installed on the C: volume and Windows 8 installed on the D: volume), then the cloned drive may not function properly in some cases.
- 10) If the Source Drive is damaged (e.g. it has bad sectors), then the cloned drive may not function properly.
- 11) Before attempting to clone a drive using Data Migration, it is recommended that you close all open programs and allocate sufficient memory first.
- 12) If you have instant recovery software installed on your computer, then Data Migration may not function properly.
- 13) If the Source Drive has been converted to a dynamic disk, then Data Migration may not function properly.
- 14) If a portable device (e.g. an external USB device) is connected to the Target Drive for cloning, then Data Migration may not function properly because of the USB adapter.
- 15) If the OS version installed in the original drive does not support the GPT partition and when it is duplicated in a drive exceeding 2TB, the MBR partition type will be applied to the duplicated drive. As MBR does not support large drives, the space exceeding 2TB will remain unallocated.
- 16) In order to use Data Migration in Samsung Portable SSD, Security Mode should be disabled.
- 17) Portable SSDs support Data Migration only on systems with Windows 10 or higher version.

## Firmware Update

- 1) PC will be shut down automatically after firmware update (Magician counts down 20 seconds before shutdown).
- 2) Firmware Update may fail on Samsung brand SSDs connected to AMD Controller. Please retry using default SATA AHCI controller (Microsoft drivers).

## Settings

- 1) When booting the PC, users can decide whether to auto run Samsung Magician. If auto run is turned off, updates cannot be received in real time.
- 2) The device scan proceeds immediately after the language is changed.
- 3) Scaling size varies depending on the resolution.

## 4. RAPID mode Limitations

- 1) RAPID mode accelerates only one SSD even though user has several Samsung SSDs (870 QVO, 870 EVO, 860 QVO, 860 EVO, 860 PRO, 850 PRO, 850 EVO, 850, 750 EVO, 840 EVO, and 840 PRO regardless of form factor).
- 2) If there are two identical SSDs connected, RAPID mode may accelerate the incorrect SSD.
- 3) RAID Mode sets is not supported as an accelerated drive.
- 4) After uninstalling RAPID mode, if the system is restored to a prior state in which RAPID mode was installed, RAPID mode will be started in a disabled state.
- 5) NVIDIA Storage controller is not supported.
- 6) During RAPID mode Enable/Disable operation: Do not disconnect the target SSD, Do not kill the application.
- 7) If fast startup is enabled on windows 10 or higher machines, RAPID mode enable/disable requires system restart. Shutdown followed by turning-on the power will not activate RAPID mode enable/disable. By default fast startup is enabled.
- 8) Flush command of operating system and/or application may cause variation in performance when RAPID mode is enabled.
- 9) Sometimes on AMD PC with AMD and ASMedia storage controllers it was found that the IOs takes a longer time to complete. In such cases if Rapid was enabled, it may get automatically disabled due to such IO errors. It may display "Rapid is in inactive state". User has to reboot the PC to enable the Rapid back.
- 10) If multiple iterations of Read and Write are performed, RAPID mode may become inactive due to system internal errors on some of the AMD / ASMedia Controller or Driver.
- 11) RAPID mode can't be guaranteed on the target SSD with non-NTFS file system.
- 12) If user deletes some files on RAPID folder, RAPID may not be uninstalled properly.
- 13) If the msiexec.exe is either unstable or corrupted, RAPID mode enable fails with the error message "The Windows Installer service failed to start. Start the Windows Installer service manually, upgrade the Windows Installer service, and check if the last updated or installed program in Windows was successful. If the problem persists, contact the A/S center."

The issue can be fixed by:

- Unregister and reregister Windows Installer service / MSI service.
  - On the Start menu, click Run.
  - In the Open box, type "msiexec /unreg". And then press ENTER.
  - On the Start menu, click Run
  - In the Open box, type "msiexec /regserver". And then press ENTER.
  - Try enabling RAPID mode again.

If RAPID mode does not enable, follow the steps below.

- Updating Windows Installer
  - If your Windows Installer is not the latest version, corrupted or msiexec is missing, please install the latest version of Windows Installer, then try enabling RAPID mode again.
- If none of the above procedures work, we recommend reinstalling Windows.

## **Operational Check of RAPID mode**

RAPID mode starts its operation 45 seconds after OS booting. Please make sure the increased size of non-paged pool using "task manager  $\rightarrow$  performance  $\rightarrow$  memory tab" to ensure it is fully operational.

PP	Task Manager	- 🗆 🗙
<u>File</u> Options <u>V</u> iew		
Processes Performance App history	Start-up Users Details Services	
CPU 100% 3.70 GHz	Memory Memory usage	8.0 GB
Memory 1.1/7.9 GB (14%)		
Disk 0 (D:)		
Disk 1 (C:)	Paused Memory composition	0
Ethernet S: 0 R: 0 Kbps		
	In use Available Speed:	2133 MHz
	1.1 GB 6.8 GB Slots used: Form factor:	2 of 4 DIMM
	Committed Cached Hardware reserved:	
	0.9/9.2 GB 315 MB	
	Paged pool Non-paged pool	
	178 MB 46.5 MB	
Fewer <u>d</u> etails   🔕 Open Resource	e Monitor	

#### \* Before RAPID mode enabling

\* After RAPID mode enabling

<b>₩</b>	Task Manager	- 🗆 🗙
<u>File</u> Options <u>V</u> iew		
Processes Performance App history	/ Start-up Users Details Services	
CPU 100% 3.73 GHz	Memory Memory Usage	8.0 GB
Memory 2.5/7.9 GB (32%)		
Disk 0 (D:)	Paused	
Disk 1 (C:)	Memory composition	
Ethernet S: 0 R: 0 Kbps		
	In use Available Speed: 2.5 GB 5.4 GB Solots used: Committed Cached Hardware re 2.4/9.2 GB 297 MB Paged pool 179 MB Non-paged pool 1.4 GB	2133 MHz 2 of 4 : DIMM sserved: 63.6 MB
Fewer details   S Open Resource	ce Monitor	

# End of Document

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