SupremeRAID™ for Windows Quick Start Guide

Graid Technology Inc.

Prerequisites

Your system must meet the following requirements:

- Minimum system requirements:
- CPU: 2 GHz or faster with at least 8 cores
- RAM: 16 GB
- An available PCIe Gen3 or Gen4 x16 slot
- The SupremeRAID™ card is installed into a PCIe x16 slot.
- The IOMMU function is disabled in the system BIOS.
- The SupremeRAID™ software package is downloaded from the GRAID, or GRAID partner, website.

The driver file name reveals support for SR1000 or SR1010:

graid-sr-x.x.x-xxx-xx.xxxxxxxx.0x0.x64

- 000 indicates SR1000
- 010 indicates SR1010.

Operating Systems

Operating System	X64
Windows	10
Windows Server	2019, 2022

Install Window Drivers

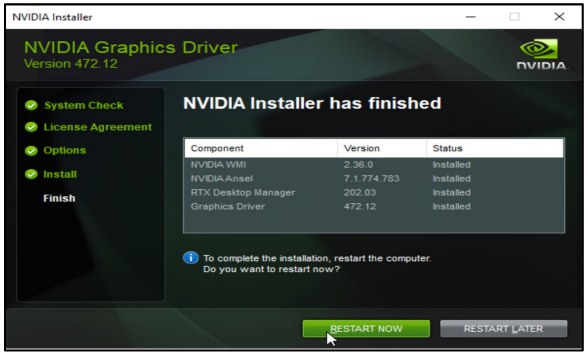
You must install the NVIDIA driver and the Visual C++ Redistributable before installing the SupremeRAID™ driver for Windows.

To install the SupremeRAID™ driver on Windows 10, Windows Server 2019, or Windows Server 2022 systems:

1. Download the latest version of the NVIDIA driver, Visual C++ Redistributable, and the SupremeRAID™ driver.

Dependency	Driver Package
NNVIDIA Driver for Windows 10	511.79
Visual C++ Redistributable	VC_redist.x64.exe
SR-1000 and SR1010	Download link

2. Install the NVIDIA driver and follow the instructions.



3. From the PowerShell or running as Administrator, check the GPU Number and set the TCC mode for the GPU.

```
nvidia-smi
nvidia-smi -dm 1 -i [GPU_NUMBER]
```

Output Example:

```
Windows PowerShell
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PS C:\Users\Administrator>nvidia-smi
Thu Nov 18 07:04:41 2021
+-----------------------------------------------------------------------------+
| NVIDIA-SMI 472.12       Driver Version: 472.12       CUDA Version: 11.4     |
|-------------------------------+----------------------+----------------------+
| GPU  Name            TCC/WDDM | Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf  Pwr:Usage/Cap|         Memory-Usage | GPU-Util  Compute M. |
|                               |                      |               MIG M. |
|===============================+======================+======================|
|   0  NVIDIA T1000        TCC  | 00000000:0B:00.0 Off |                  N/A |
| 40%   53C    P8    N/A /  50W |    539MiB /  3984MiB |      0%   E. Process |
|                               |                      |                  N/A |
+-------------------------------+----------------------+----------------------+

+-----------------------------------------------------------------------------+
| Processes:                                                                  |
|  GPU   GI   CI        PID   Type   Process name                  GPU Memory |
|        ID   ID                                                   Usage      |
|=============================================================================|
|    0   N/A  N/A      3020      C   Insufficient Permissions           509MiB |
+-----------------------------------------------------------------------------+

PS C:\Users\Administrator>nvidia-smi -dm 1 -i 0
Driver model is already set to TCC for GPU 00000000:0B:00.0.
All done.
```
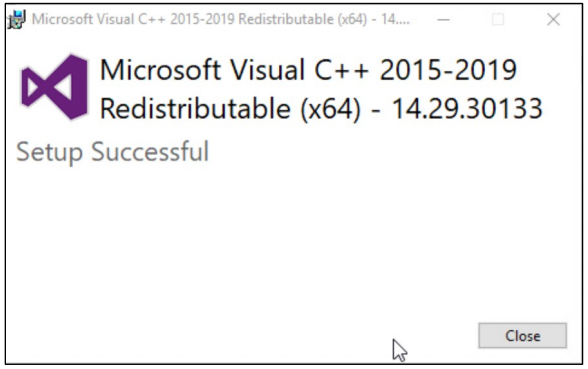

4. Install the Visual C++ Redistributable and follow the instructions.



5. Install the SupremeRAID™ driver and follow the instructions.

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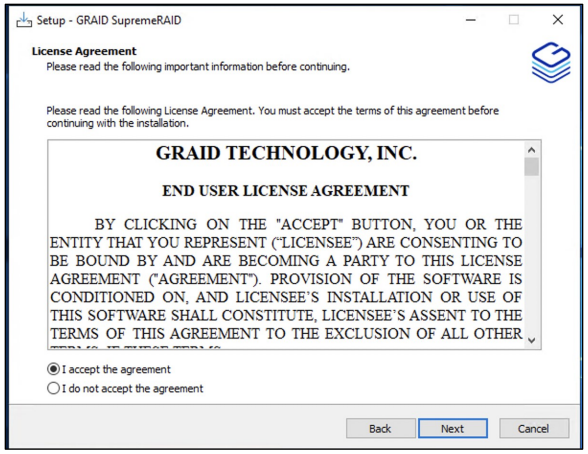
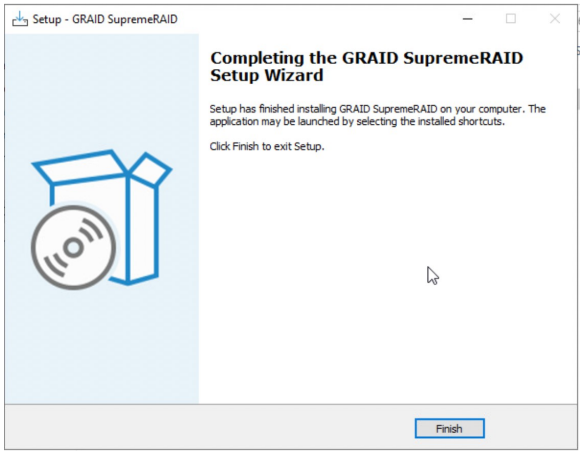
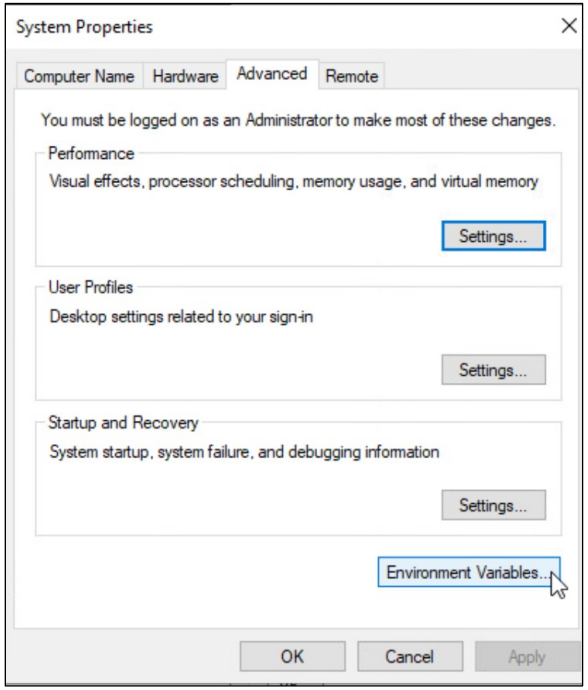
6. In the end-user license agreement page, you can scroll down the license content. After you review the license, accept the agreement and click Next to proceed.



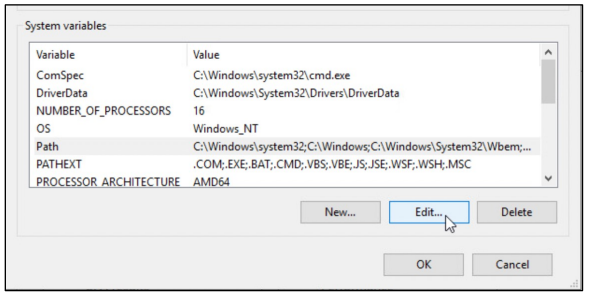
7. Install SupremeRAID™ driver page.



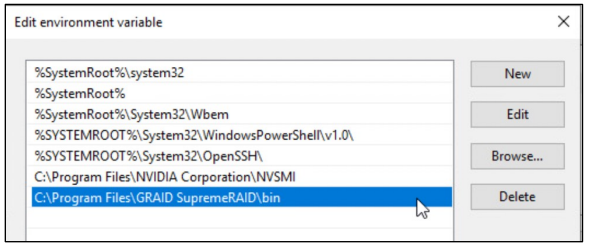
8. Execute the SupremeRAID™ driver. There are two ways to launch the graid service. To append the SupremeRAID™ driver folder path into the "Environment Variables":
   a. Press "Windows Key + R" and type sysdm.cpl to open the System Properties dialog.
   b. Select the Advanced tab and click Environment Variables....



   c. From the Environment Variables dialog box, select the Path row and click Edit.



   d. Add the SupremeRAID™ driver path, and then save it and reboot the system.



To change directories to the SupremeRAID™ driver folder: From the PowerShell or command prompt running as administrator, change to the directory containing the SupremeRAID™ driver folder.

```
> cd "%PROGRAMFILES%\GRAID SupremeRAID\bin"
```

Output example:

```
Windows PowerShell
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PS C:\Users\Administrator>cd "C:\Program Files\GRAID SupremeRAID\bin"
PS C:\Program Files\GRAID SupremeRAID\bin>
```