Restore initial image system
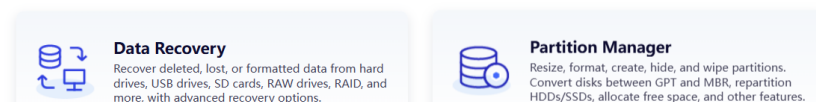
1. Format the SSD

Before restoring the factory image, you need to format the SSD into exFAT format.

1.1. Download DiskGenius

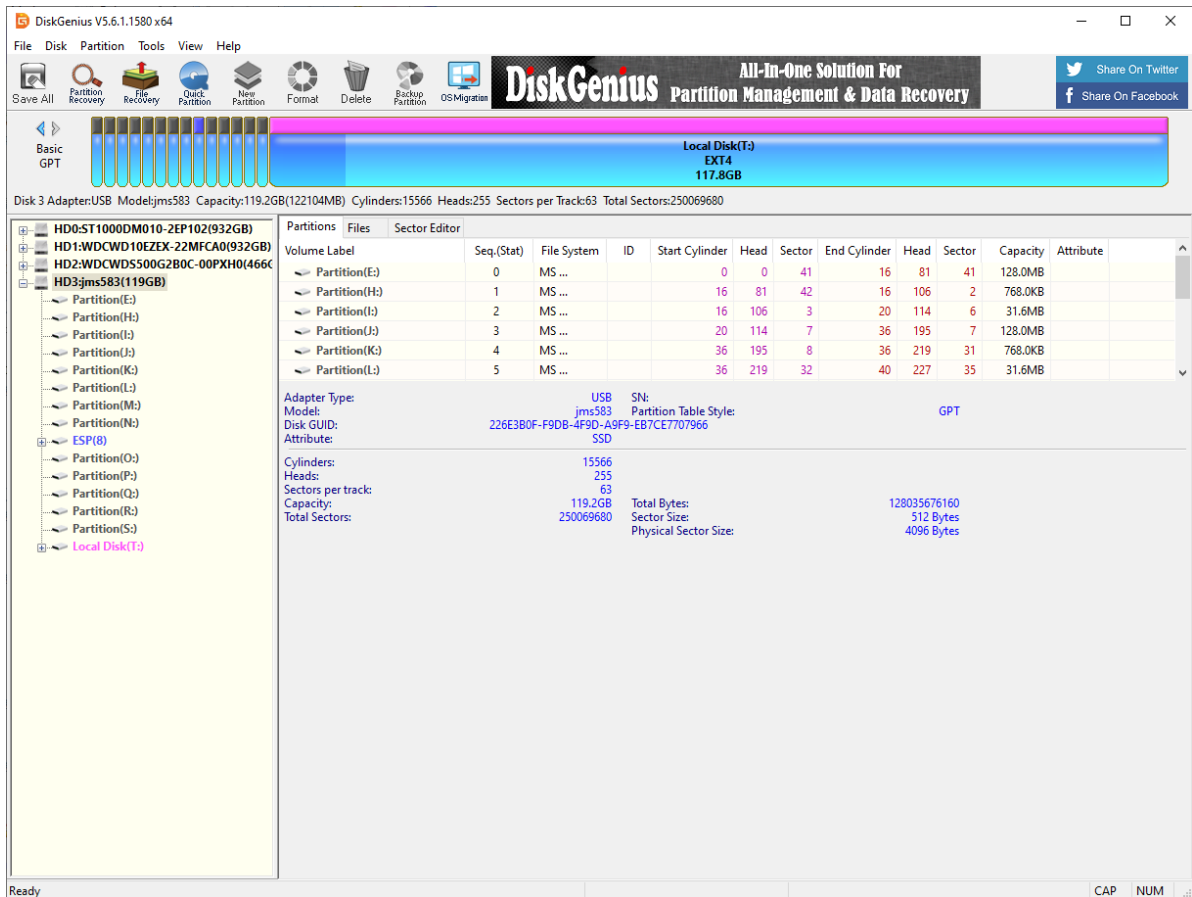Download URL: https://www.diskgenius.com/

Double-click the exe file you just downloaded to install DiskGenius. Follow the prompts to install the software on the Windows computer. After opening the software, it will be as shown below.

DiskGenius V5.6.1.1580 x64

File Disk Partition Tools View Help

Save All Partition Recovery File Recovery Quick Partition New Partition Format Delete Backup Partition OS Migration

DiskGenius All-In-One Solution For Partition Management & Data Recovery

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Basic
GPT

Local Disk(T:)
EXT4
117.8GB

Disk 3 Adapter:USB Model:jms583 Capacity:119.2GB(122104MB) Cylinders:15566 Heads:255 Sectors per Track:63 Total Sectors:250069680

HD0:ST1000DM010-2EP102(932GB)
HD1:WDCWD10EZEX-22MFCA0(932GB)
HD2:WDCWDS500G2B0C-00PXH0(466(
HD3:jms583(119GB)
- Partition(E:)
- Partition(H:)
- Partition(I:)
- Partition(J:)
- Partition(K:)
- Partition(L:)
- Partition(M:)
- Partition(N:)
- ESP(8)
- Partition(O:)
- Partition(P:)
- Partition(Q:)
- Partition(R:)
- Partition(S:)
- Local Disk(T:)

Partitions | Files | Sector Editor

Volume Label	Seq.(Stat)	File System	ID	Start Cylinder	Head	Sector	End Cylinder	Head	Sector	Capacity	Attribute
Partition(E:)	0	MS ...		0	0	41	16	81	41	128.0MB	
Partition(H:)	1	MS ...		16	81	42	16	106	2	768.0KB	
Partition(I:)	2	MS ...		16	106	3	20	114	6	31.6MB	
Partition(J:)	3	MS ...		20	114	7	36	195	7	128.0MB	
Partition(K:)	4	MS ...		36	195	8	36	219	31	768.0KB	
Partition(L:)	5	MS ...		36	219	32	40	227	35	31.6MB	

Adapter Type: USB   SN:
Model: jms583   Partition Table Style: GPT
Disk GUID: 226E3B0F-F9DB-4F9D-A9F9-EB7CE7707966
Attribute: SSD

Cylinders: 15566
Heads: 255
Sectors per track: 63
Capacity: 119.2GB   Total Bytes: 128035676160
Total Sectors: 250069680 Sector Size: 512 Bytes
                                     Physical Sector Size: 4096 Bytes

Ready   CAP NUM

1.1. Use DiskGenius

1.1.1, Delete partition

Deleting a partition will clear the disk data. Please confirm whether the drive letter is the disk that needs to be formatted before confirming the operation: you can judge based on the disk size and the newly added drive letter of the connected disk

DiskGenius V5.6.1.1580 x64

File Disk Partition Tools View Help

Save All | Partition Recovery | File Recovery | Quick Partition | New Partition | Format | Delete | Backup Partition | OS Migration

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Basic GPT

Local Disk(T:)
EXT4
117.8GB

Disk 3 Adapter:USB Model:jms583 Capacity:119.2GB(122104MB) Cylinders:15566 Heads:255 Sectors per Track:63 Total Sectors:250069680

- HD0:ST1000DM010-2EP102(932GB)
- HD1:WDCWD10EZEX-22MFCA0(932GB)
- HD2:WDCWDS500G2B0C-00PXH0(466(
- HD3:jms583(119GB)

Partitions | Files | Sector Editor

Volume Label	Seq.(Stat)	File System	ID	Start Cylinder	Head	Sector	End Cylinder	Head	Sector	Capacity	Attribute
Partition(E:)	0	MS ...		0	0	41	16	81	41	128.0MB	
	1	MS ...		16	81	42	16	106	2	768.0KB	
	2	MS ...		16	106	3	20	114	6	31.6MB	
	3	MS ...		20	114	7	36	195	7	128.0MB	
	4	MS ...		36	195	8	36	219	31	768.0KB	
	5	MS ...		36	219	32	40	227	35	31.6MB	

Save Partition Table(F8)
Backup Partition Table(F2)
Restore Partition Table(F3)
Search Lost Partitions(Partition Recovery)(L)
Recover Lost Files(U)
Rebuild Master Boot Record(M)
Clear Reserved Sectors(E)
Quick Partition(F6)
Delete All Partitions(A)
Erase Sectors(E)
Backup Disk To Image File
Restore Image File To Disk
Convert To GUID Partition Table (P)
Convert To MBR Partition Table (B)
Convert To Basic Disk (D)
Appoint Disk Geometry(G)
Modify MBR Signature / Disk GUID
View S.M.A.R.T. Information(S)
View Storage Pool Information
Verify Or Repair Bad Sectors(Y)
Reset Bad Sector Records
Convert Boot Mode
Change Device State
TRIM Optimization
Close Virtual Disk File(C)
Recompose Virtual RAID

USB SN:
jms583 Partition Table Style: GPT
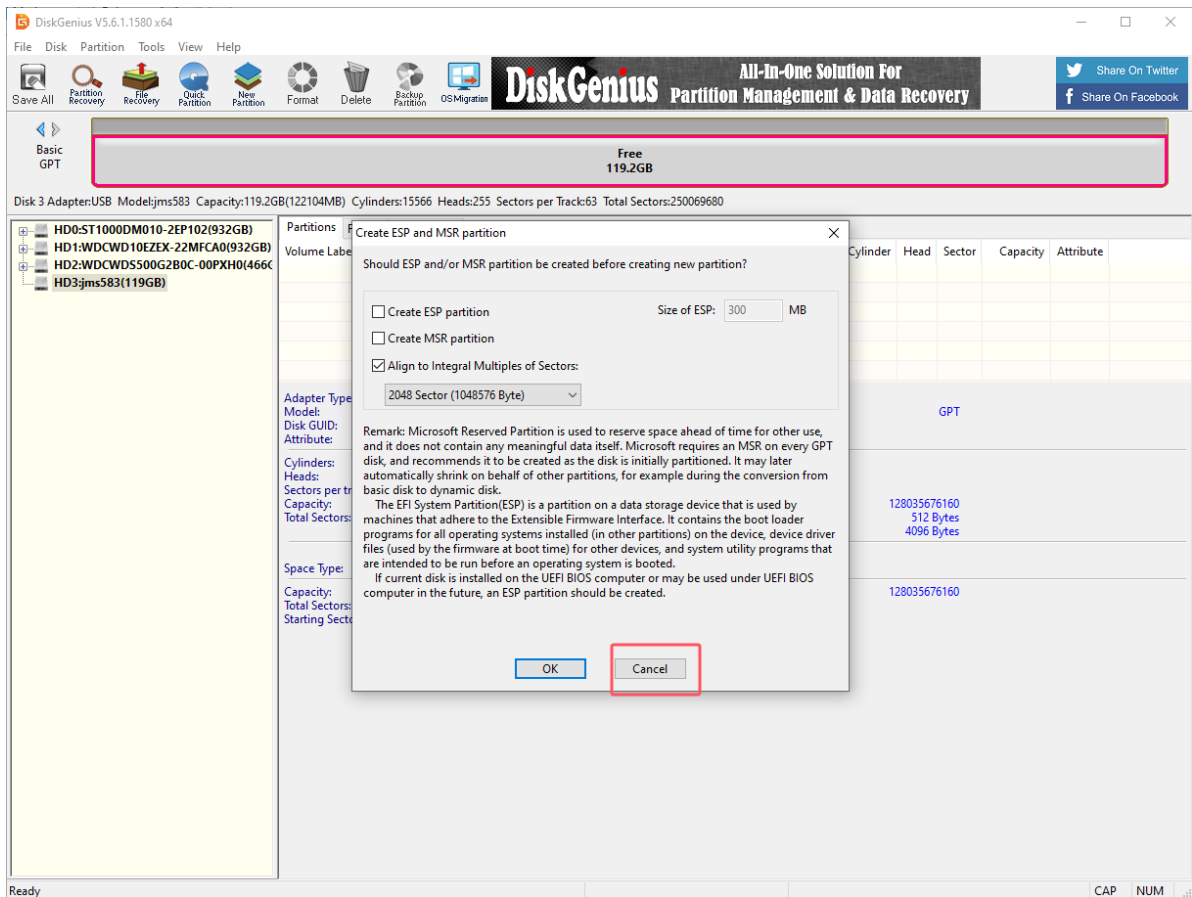226E3B0F-F9DB-4F9D-A9F9-EB7CE7707966
SSD

15566
255
63
119.2GB Total Bytes: 128035676160
250069680 Sector Size: 512 Bytes
Physical Sector Size: 4096 Bytes

Delete all partiti...

CAP NUM

DiskGenius V5.6.1.1580 x64

File Disk Partition Tools View Help

Save All | Partition Recovery | File Recovery | Quick Partition | New Partition | Format | Delete | Backup Partition | OS Migration

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Basic GPT

Local Disk(T:)
EXT4
117.8GB

Disk 3 Adapter:USB Model:jms583 Capacity:119.2GB(122104MB) Cylinders:15566 Heads:255 Sectors per Track:63 Total Sectors:250069680

- HD0:ST1000DM010-2EP102(932GB)
- HD1:WDCWD10EZEX-22MFCA0(932GB)
- HD2:WDCWDS500G2B0C-00PXH0(466(
- HD3:jms583(119GB)
  - Partition(E:)
  - Partition(H:)
  - Partition(I:)
  - Partition(J:)
  - Partition(K:)
  - Partition(L:)
  - Partition(M:)
  - Partition(N:)
  - ESP(8)
  - Partition(O:)
  - Partition(P:)
  - Partition(Q:)
  - Partition(R:)
  - Partition(S:)
  - Local Disk(T:)

Partitions | Files | Sector Editor

Volume Label	Seq.(Stat)	File System	ID	Start Cylinder	Head	Sector	End Cylinder	Head	Sector	Capacity	Attribute
Partition(E:)	0	MS ...		0	0	41	16	81	41	128.0MB	
Partition(H:)	1	MS ...		16	81	42	16	106	2	768.0KB	
Partition(I:)	2	MS ...		16	106	3	20	114	6	31.6MB	
Partition(J:)	3	MS ...		20	114	7	36	195	7	128.0MB	
Partition(K:)	4	MS ...		36	195	8	36	219	31	768.0KB	
Partition(L:)	5	MS ...		36	219	32	40	227	35	31.6MB	

DiskGenius

Are you sure you want to delete all the partitions on current disk? All files in it will lose. Select "Yes" to delete.

[Yes] [No]

GPT

6160
Bytes
Bytes
4096 Bytes

Ready

CAP NUM

1.1.2. Create a new partition

Partition the SSD into NTFS format.

Select the drive letter corresponding to the SSD, and then click New Partition:

Screenshot 1: DiskGenius V5.6.1.1580 x64 — Create New Partition dialog

DiskGenius V5.6.1.1580 x64

File Disk Partition Tools View Help

Save All | Partition Recovery | File Recovery | Quick Partition | New Partition | Format | Delete | Backup Partition | OSMigration

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Basic
GPT

Free
119.2GB

Disk 3 Adapter:USB Model:jms583 Capacity:119.2GB(122104MB) Cylinders:15566 Heads:255 Sectors per Track:63 Total Sectors:250069680

- HD0:ST1000DM010-2EP102(932GB)
- HD1:WDCWD10EZEX-22MFCA0(932GB)
- HD2:WDCWDS500G2B0C-00PXH0(466G
- HD3:jms583(119GB)

Partitions Files

Volume Label

| | End Cylinder | Head | Sector | Capacity | Attribute |

Create New Partition

Select Partition Type:
- (•) Primary Partition
- ( ) Extended Partition
- ( ) Logical Partition

File System Type:
NTFS (MS Basic Data)

File System ID: 07

Size of Partition (0 - 119 GB):
119   GB

☑ Align to Integral Multiples of Sectors:
4096 Sector (2097152 Byte)

Cluster Size: Default(4096)

Volume Label:

Advanced>>

OK   Cancel

Adapter Type:
Model:
Disk GUID:
Attribute:

Cylinders:
Heads:
Sectors per track:
Capacity:
Total Sectors:

Space Type:

Capacity:
Total Sectors:
Starting Sector:

GPT

128035676160
512 Bytes
4096 Bytes

128035676160

Ready   CAP NUM

Screenshot 2: DiskGenius V5.6.1.1580 x64 — After partition creation

DiskGenius V5.6.1.1580 x64

File Disk Partition Tools View Help

Save All | Partition Recovery | File Recovery | Quick Partition | New Partition | Format | Delete | Backup Partition | OSMigration

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Basic
GPT

Unformatted(0)
NTFS
119.2GB

Disk 3 Adapter:USB Model:jms583 Capacity:119.2GB(122104MB) Cylinders:15566 Heads:255 Sectors per Track:63 Total Sectors:250069680

- HD0:ST1000DM010-2EP102(932GB)
- HD1:WDCWD10EZEX-22MFCA0(932GB)
- HD2:WDCWDS500G2B0C-00PXH0(466G
- HD3:jms583(119GB)
  - Unformatted(0)

Partitions Files Sector Editor

Volume Label	Seq.(Stat)	File System	ID	Start Cylinder	Head	Sector	End Cylinder	Head	Sector	Capacity	Attribute
Unformatted(0)	0 N	NTFS		0	65	2	15566	19	5	119.2GB	

Adapter Type: USB   SN:
Model: jms583   Partition Table Style: GPT
Disk GUID: 226E3B0F-F9DB-4F9D-A9F9-EB7CE7707966
Attribute: SSD

Cylinders: 15566
Heads: 255
Sectors per track: 63
Capacity: 119.2GB   Total Bytes: 128035676160
Total Sectors: 250069680   Sector Size: 512 Bytes
                                    Physical Sector Size: 4096 Bytes

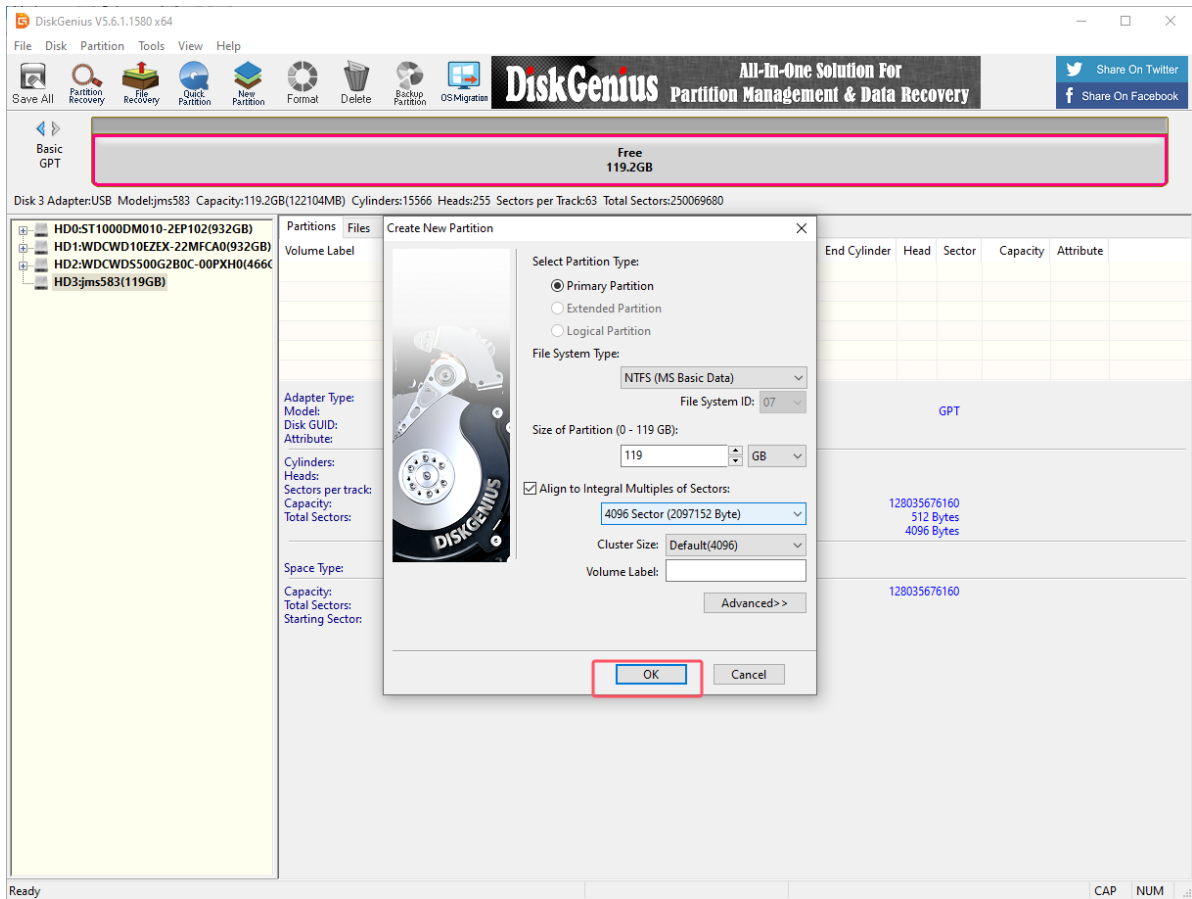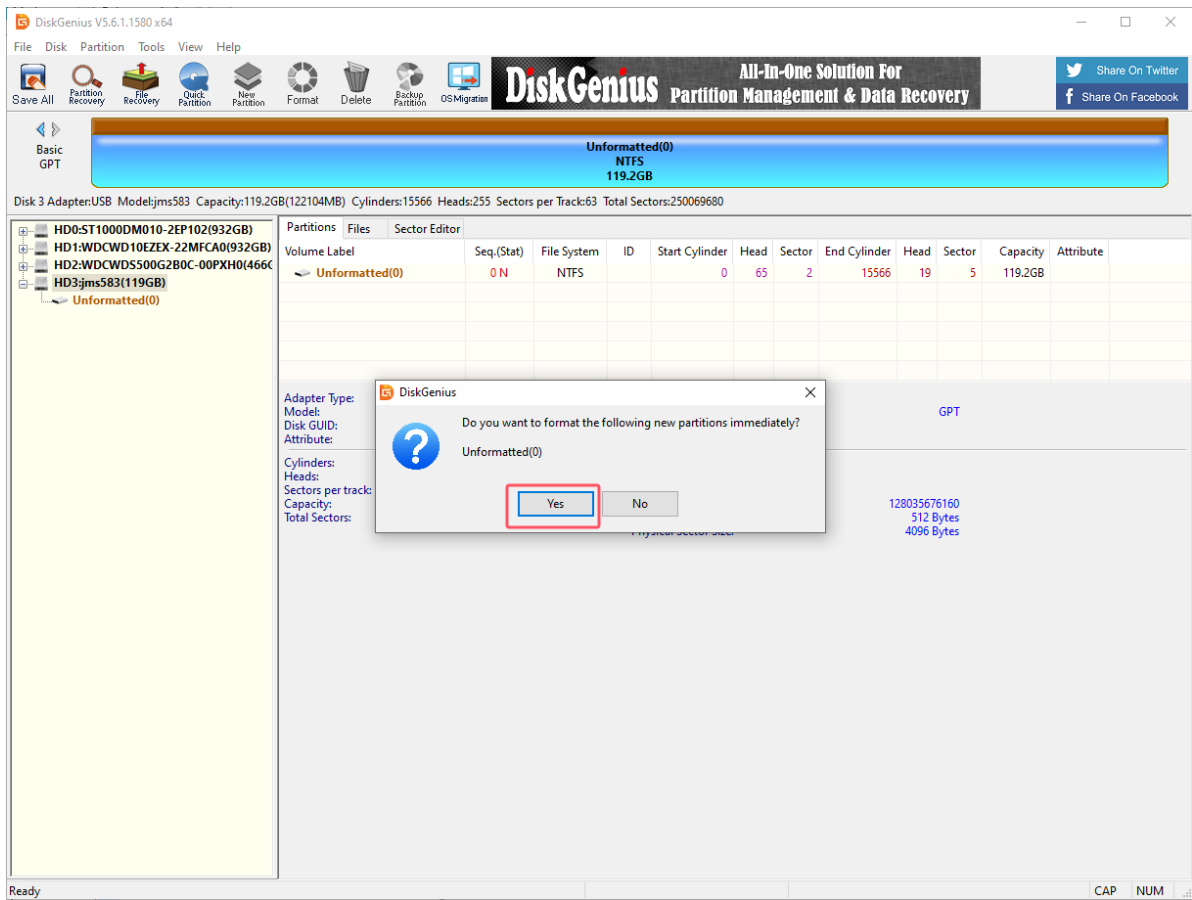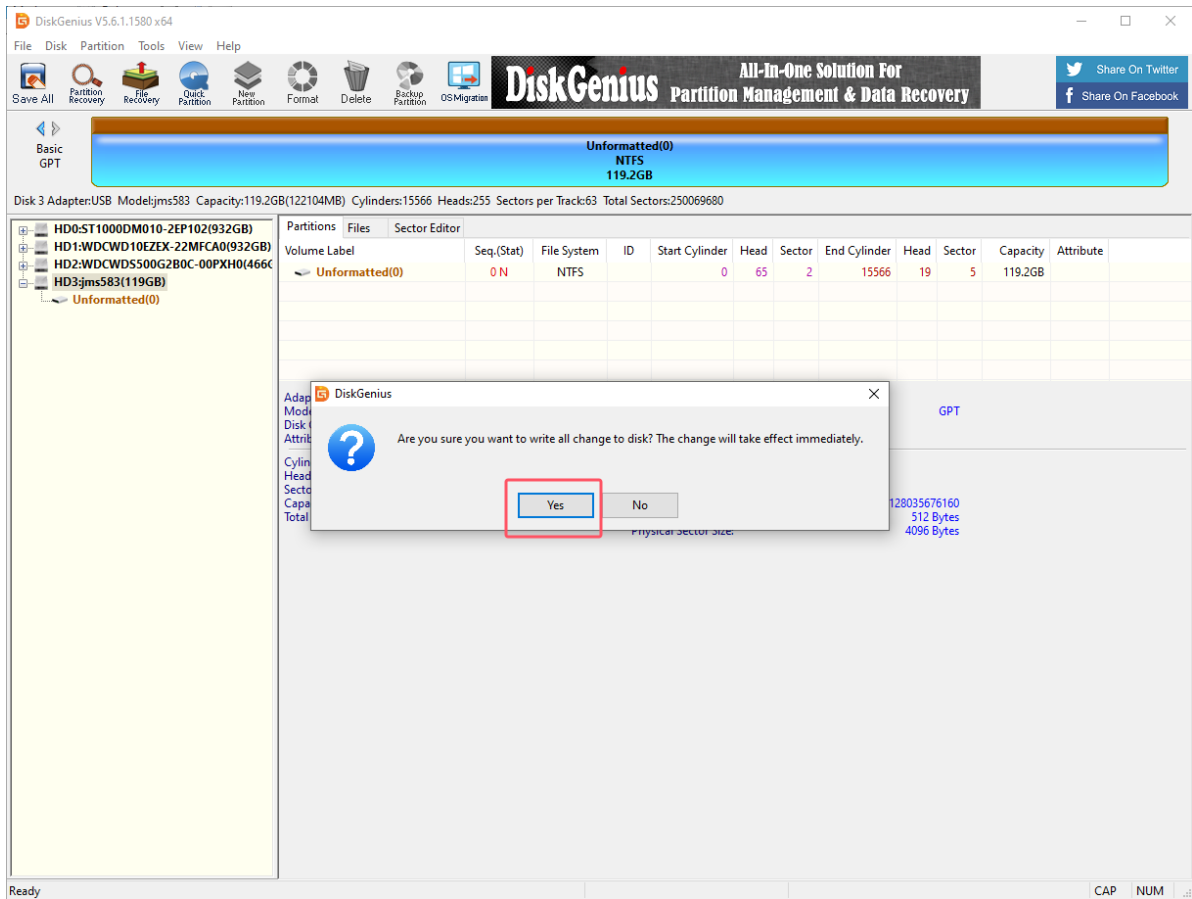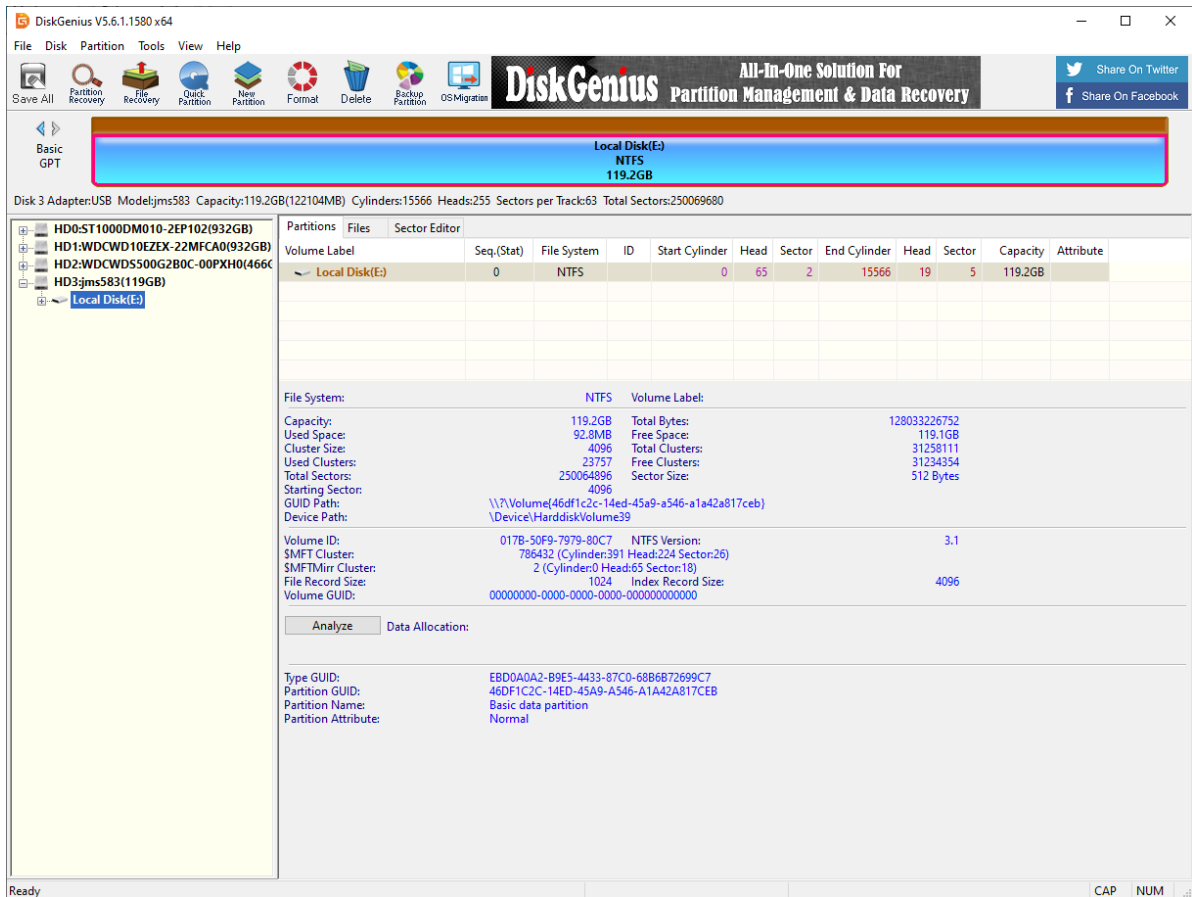Ready   CAP NUM

DiskGenius V5.6.1.1580 x64

File Disk Partition Tools View Help

Save All Partition Recovery File Recovery Quick Partition New Partition Format Delete Backup Partition OS Migration

DiskGenius All-In-One Solution For Partition Management & Data Recovery

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Basic
GPT

Unformatted(0)
NTFS
119.2GB

Disk 3 Adapter:USB Model:jms583 Capacity:119.2GB(122104MB) Cylinders:15566 Heads:255 Sectors per Track:63 Total Sectors:250069680

Partitions | Files | Sector Editor

Volume Label	Seq.(Stat)	File System	ID	Start Cylinder	Head	Sector	End Cylinder	Head	Sector	Capacity	Attribute
Unformatted(0)	0 N	NTFS		0	65	2	15566	19	5	119.2GB	

- HD0:ST1000DM010-2EP102(932GB)
- HD1:WDCWD10EZEX-22MFCA0(932GB)
- HD2:WDCWDS500G2B0C-00PXH0(466G
- HD3:jms583(119GB)
  - Unformatted(0)

DiskGenius ✕

Are you sure you want to write all change to disk? The change will take effect immediately.

Yes   No

GPT

128035676160
512 Bytes
4096 Bytes

Ready

CAP NUM

DiskGenius V5.6.1.1580 x64

File Disk Partition Tools View Help

Save All Partition Recovery File Recovery Quick Partition New Partition Format Delete Backup Partition OS Migration

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Basic
GPT

Unformatted(0)
NTFS
119.2GB

Disk 3 Adapter:USB Model:jms583 Capacity:119.2GB(122104MB) Cylinders:15566 Heads:255 Sectors per Track:63 Total Sectors:250069680

Partitions | Files | Sector Editor

Volume Label	Seq.(Stat)	File System	ID	Start Cylinder	Head	Sector	End Cylinder	Head	Sector	Capacity	Attribute
Unformatted(0)	0 N	NTFS		0	65	2	15566	19	5	119.2GB	

- HD0:ST1000DM010-2EP102(932GB)
- HD1:WDCWD10EZEX-22MFCA0(932GB)
- HD2:WDCWDS500G2B0C-00PXH0(466G
- HD3:jms583(119GB)
  - Unformatted(0)

Adapter Type:
Model:
Disk GUID:
Attribute:

Cylinders:
Heads:
Sectors per track:
Capacity:
Total Sectors:

DiskGenius ✕

Do you want to format the following new partitions immediately?

Unformatted(0)

Yes   No

GPT

128035676160
512 Bytes
4096 Bytes

Ready

CAP NUM

2. Restore the factory image

You need to download and decompress the factory image system in the data to the local computer in advance.

2.1. Install Win32DiskImager

Download URL: https://sourceforge.net/projects/win32diskimager/
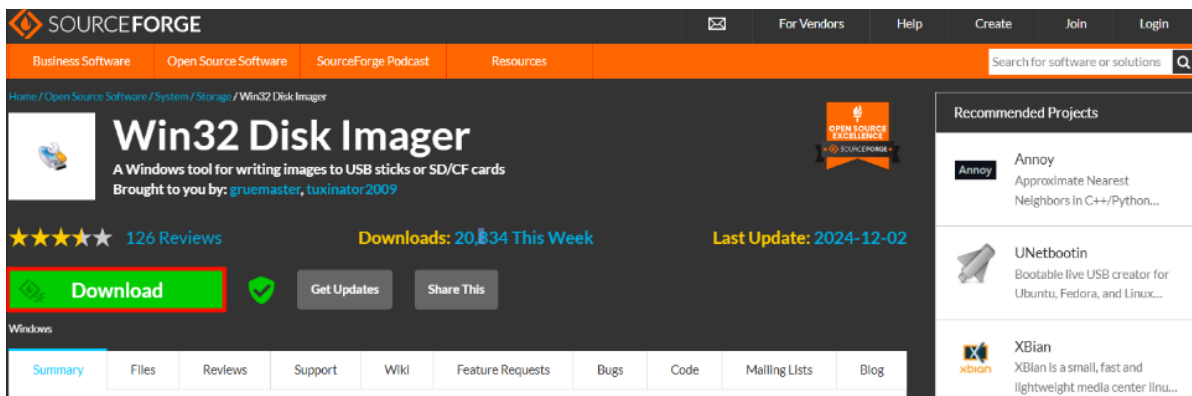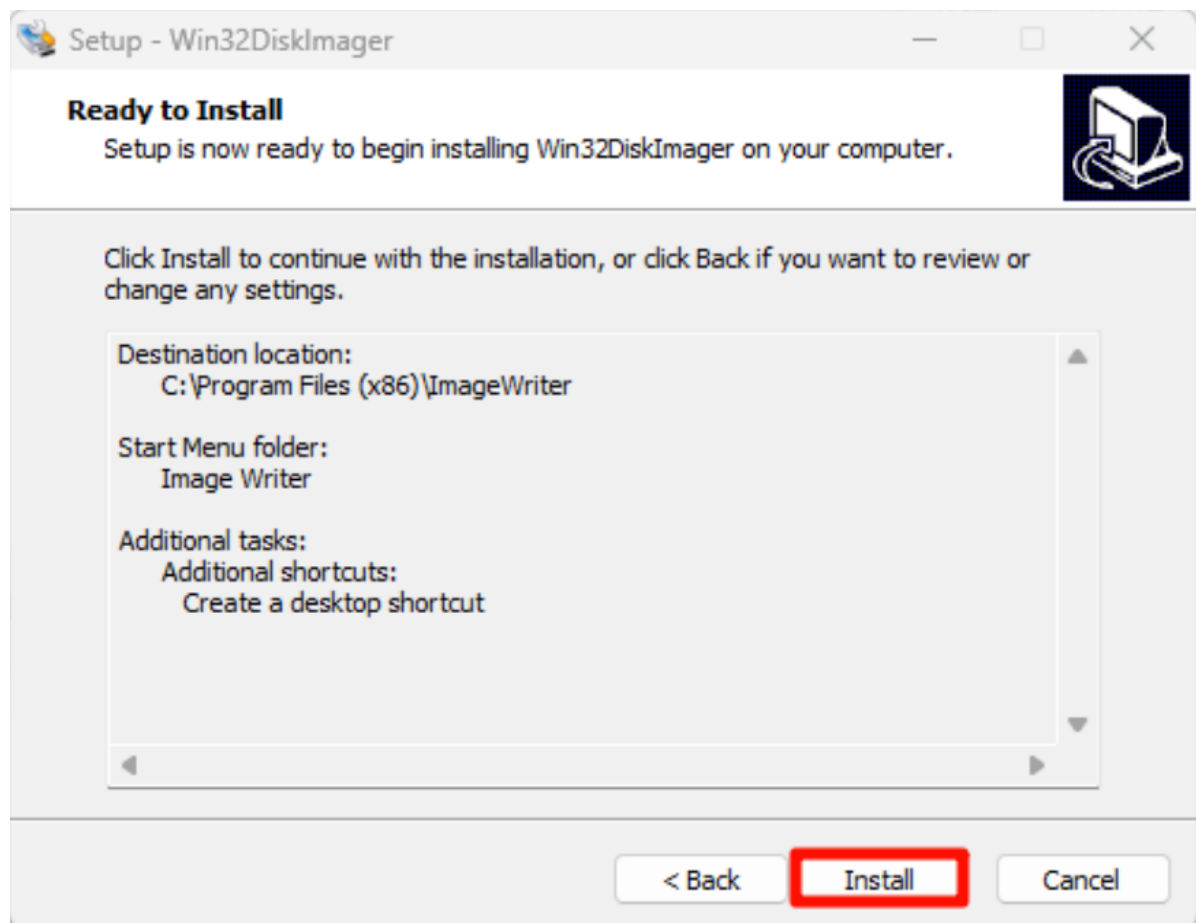

Open the `win32diskimager-1.0.0-install.exe` installation package as an administrator and accept the agreement:
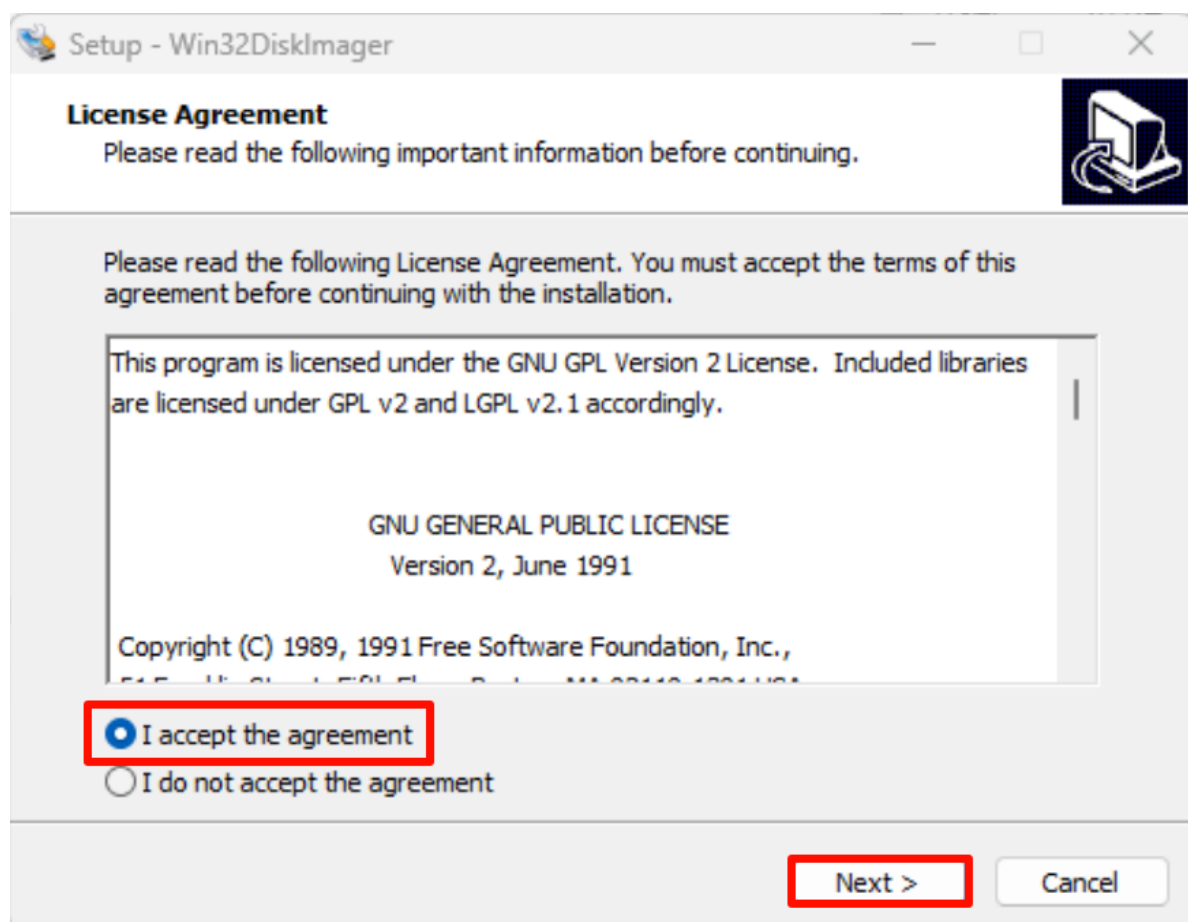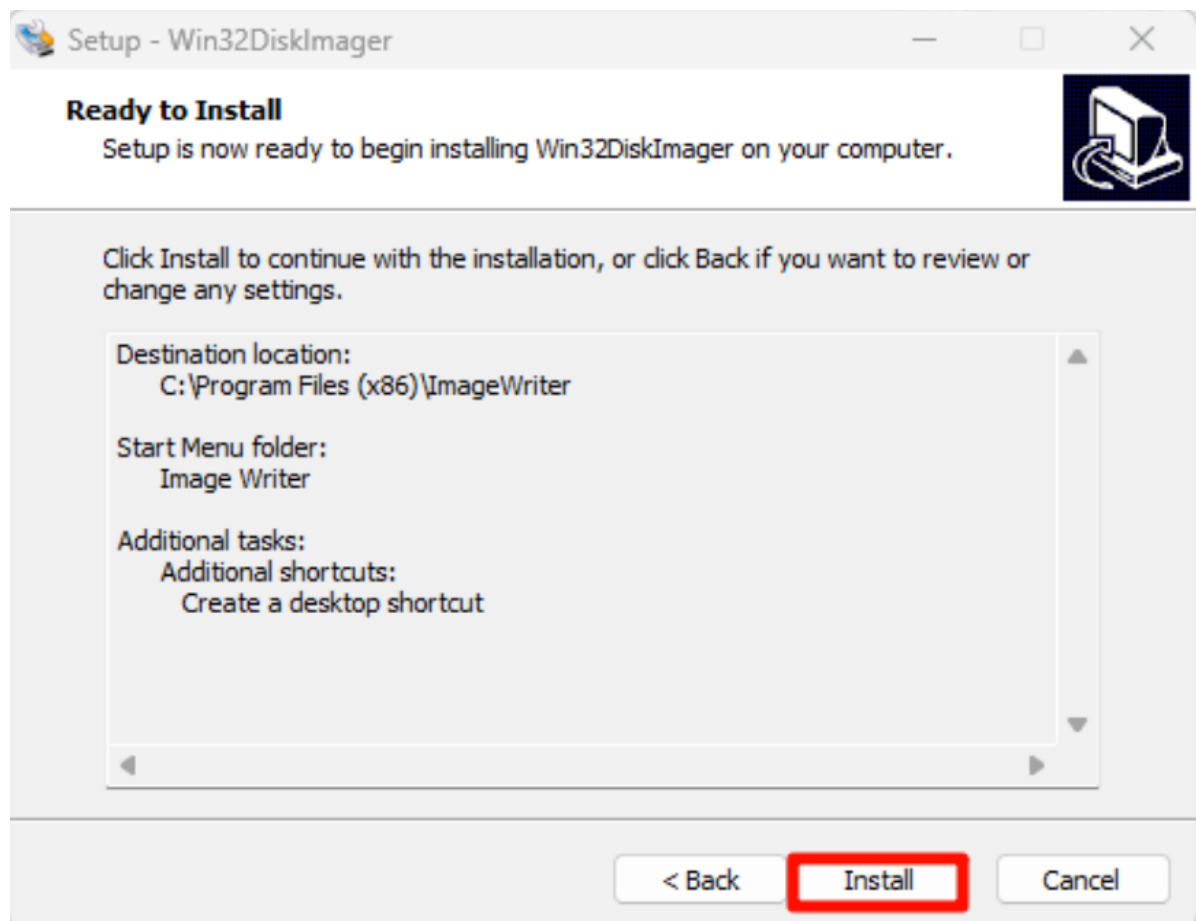
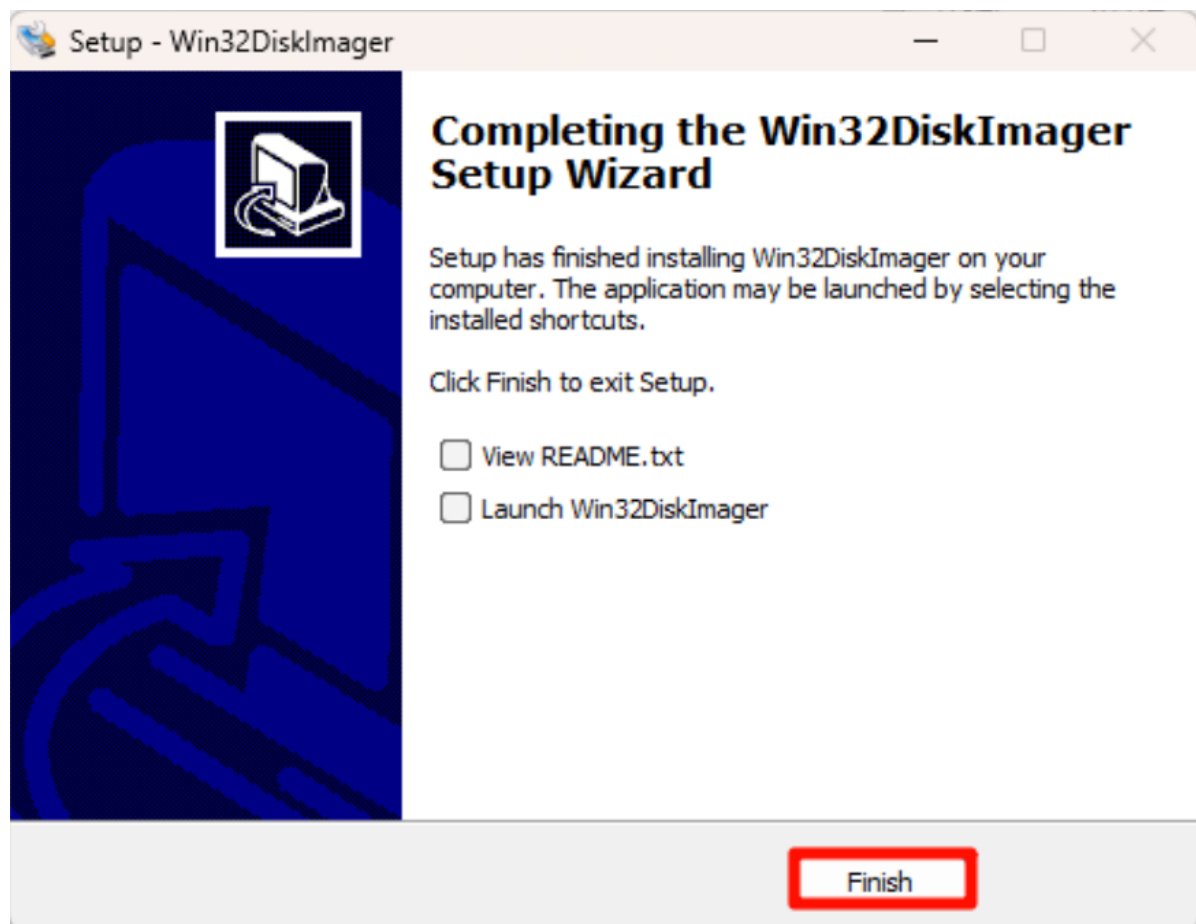Installation location: The default location is recommended
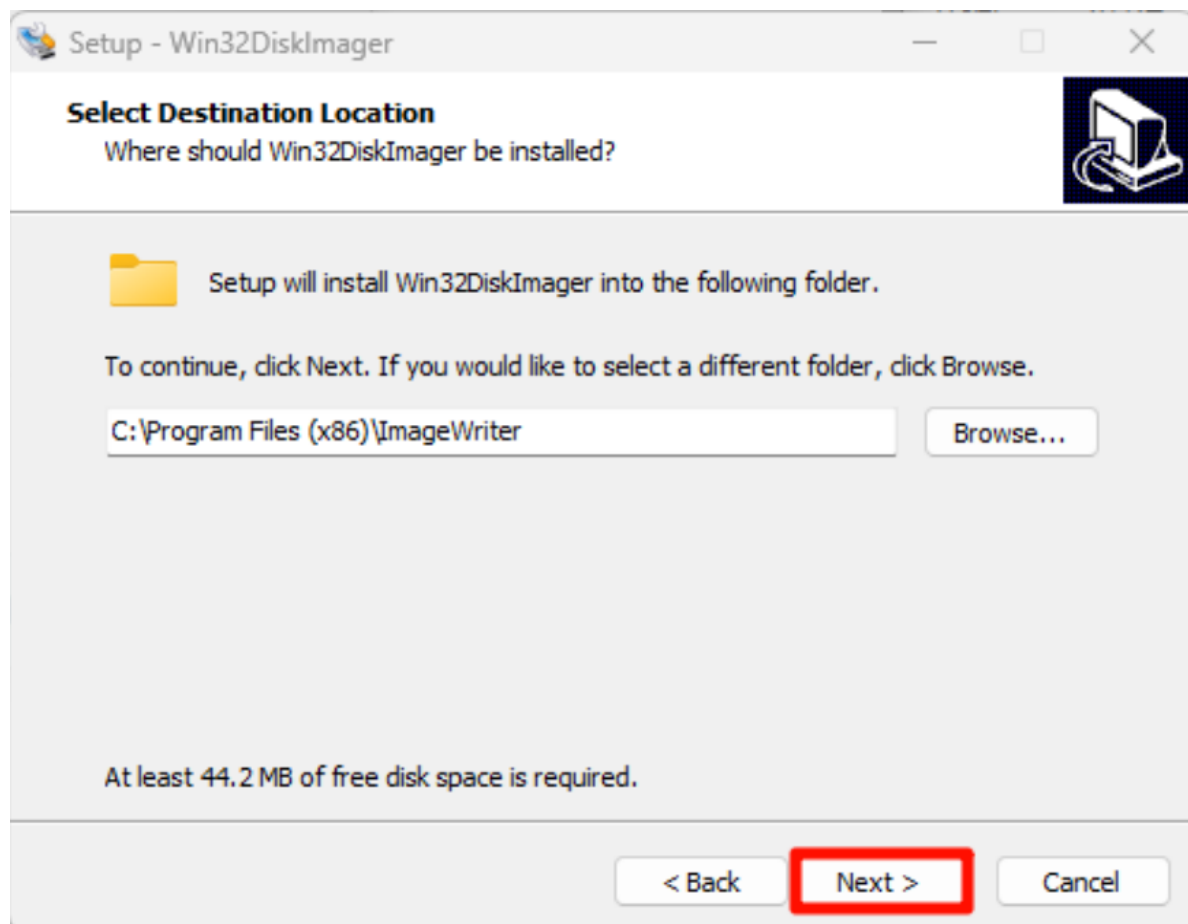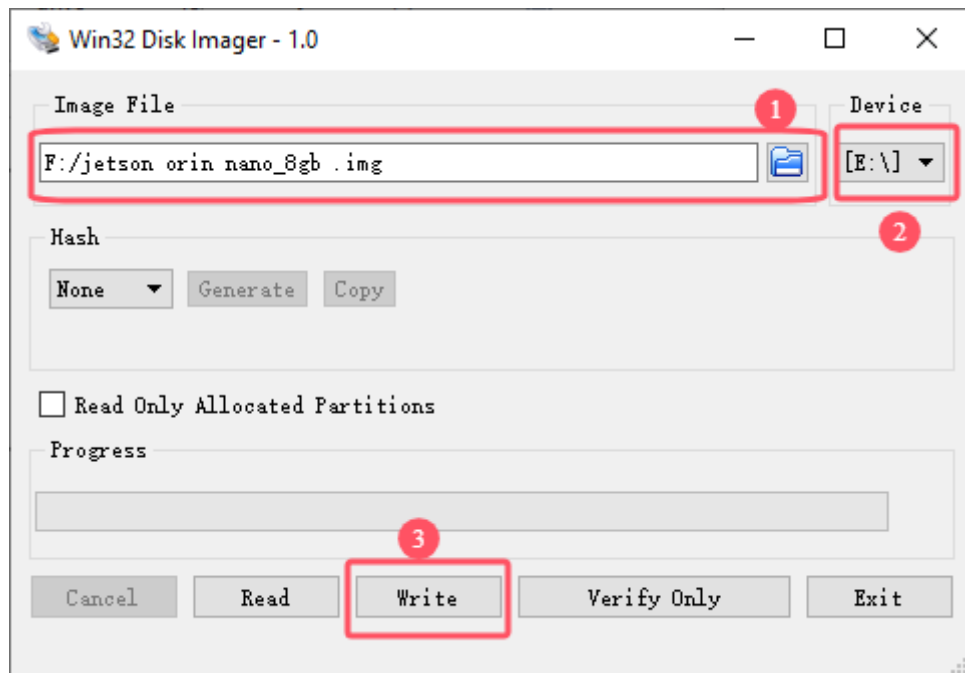

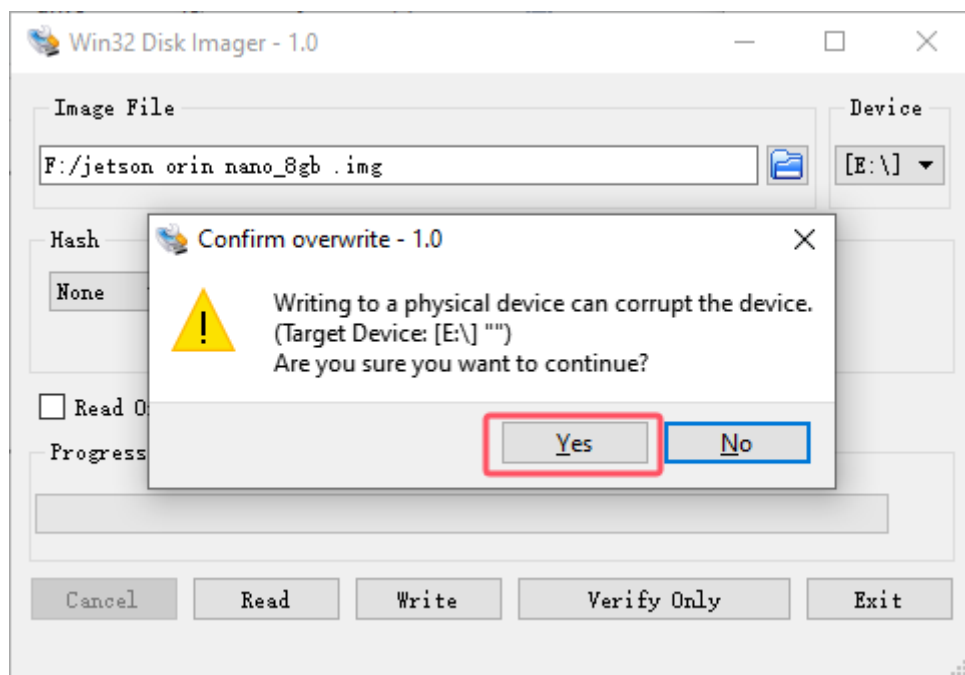Installation options:
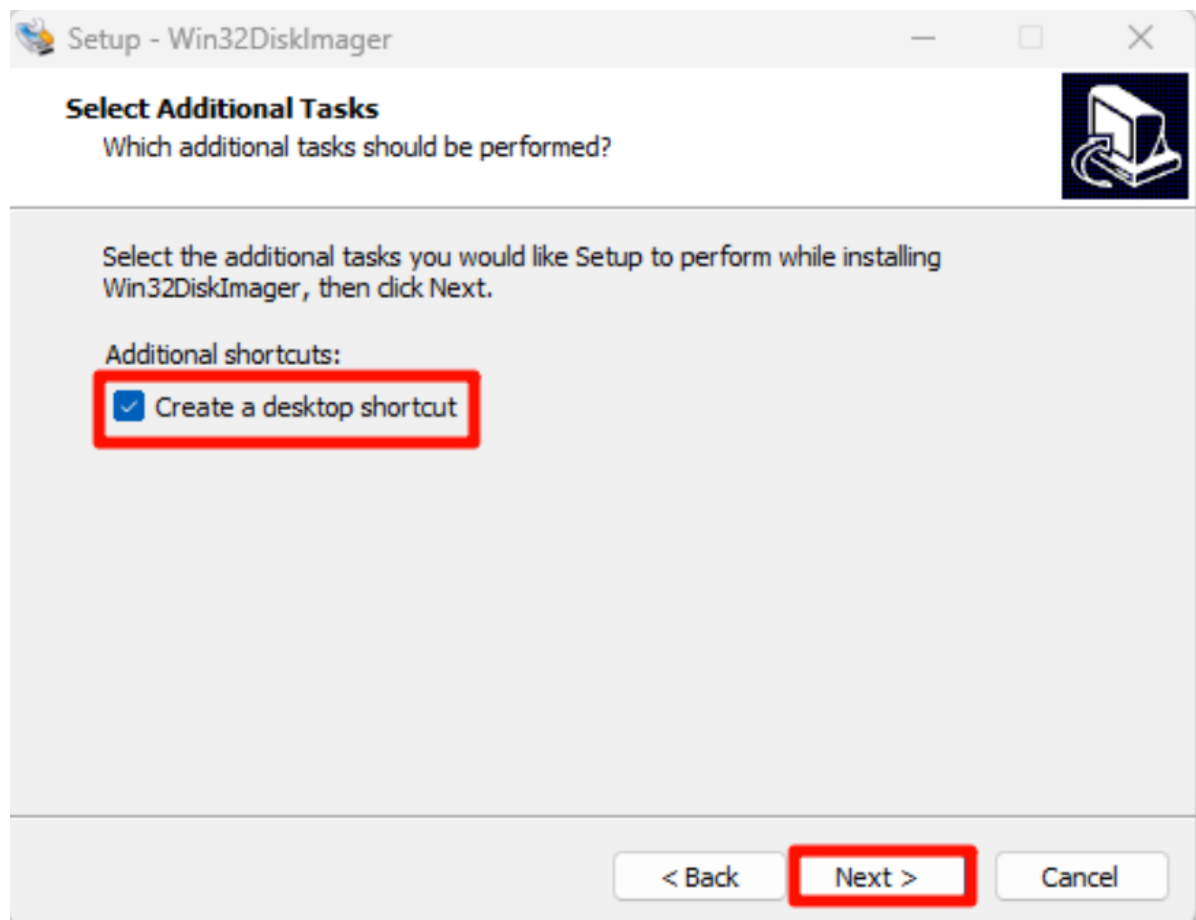
Start installation:

Complete installation:

2.2. Use Win32DiskImager

①: Select the factory image file (*.img) in the data

②: Select the drive letter corresponding to the solid-state drive

③: Write the factory image to the solid-state drive

Confirm writing to the system:

Wait for the system to be written successfully:
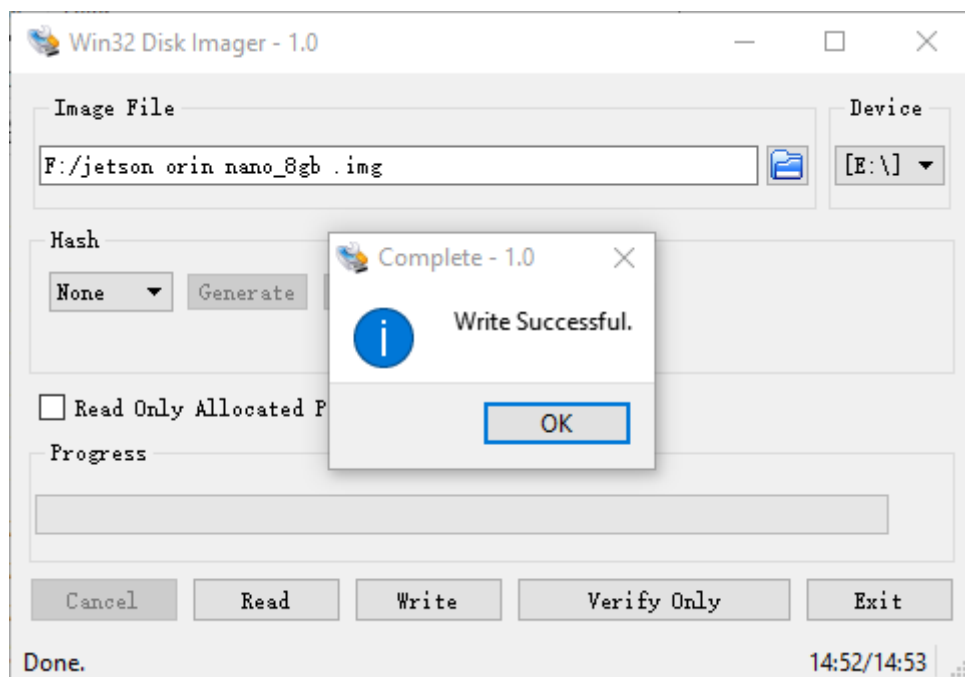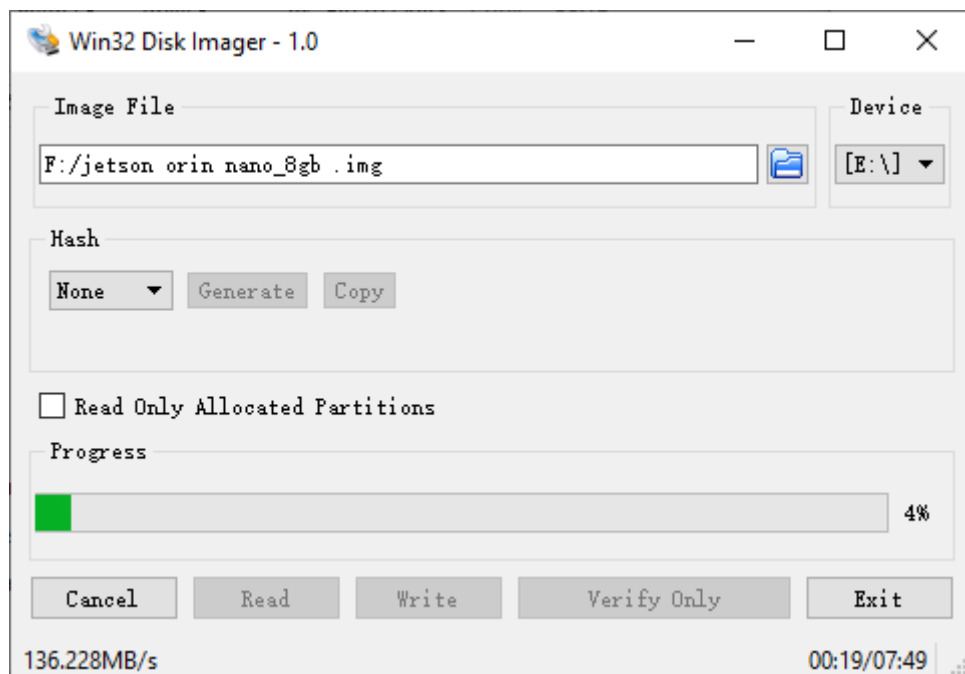
After the system is written, you can close the program and install the SSD to the Jetson Orin motherboard!

3. Description

The Jetson motherboard can start the system normally and it depends on the system Jetpack version. Generally, only the same version can start the system!