

Cloning tutorial

How to clone former disk (HDD or SSD) to EMTEC Internal SSD X150

1



We suggest to use the free software MacriumReflect7 Free Edition





I. Requirements before Cloning of the internal disks

1) You need a SATA to USB adapter :

• This adapter is used to connect the SSD X150 to the USB port of the computer which contains the HDD to be cloned.



2) Check that the capacity of the SSD is sufficient for cloning :

• If the original disk in the computer has a capacity greater than the SSD X150, you must verify that the space used on the original disk is less than the capacity of the SSD X150. See in the properties of the disk (see screenshot below)

Type : Système de fichiers :	Disque local NTFS	
Espace utilisé :	204 223 516 672 octets	> 190 Go
Espace libre :	294 413 713 408 octets	274 Go
Capacité :	498 637 230 080 octets	_464 Go
	Lecteur C :	Nettoyage de disque

• If the space used on the original disk is greater than the capacity of the SSD X150, it is necessary to free up space on the original disk by moving a quantity of sufficient data to another media: USB disk, DVD-R, cloud (DRIVE, DROPBOX, ...).



II. Cloning the original disk

Before you start cloning your computer's disk to the SSD X150, make sure that all your important data is backed up.

- 1) Install the software MacriumReflect7 Free Edition
 - This software is available on the following website : https://www.macrium.com/reflectfree
 - In case of difficulties to install the software please refer to the installation procedure at the end of this tutorial.
- 2) Connect the SSD X150 to the USB port of the computer Via the SATA/USB adapter
- 3) Launch the MacriumReflect software and click on the disk icon you want to clone

Macrium Reflect - Free Edition for both home and com	nercial use - v7.2.4063 —		×
File View Backup Restore Other Tasks Help			
Backup Tasks	Create a backup Backup Definition Files VBScript Files PowerShell Files MS-DOS Batch Files Scheduled Backup	s	
Image selected disks on this computer	(J) <u>Refresh</u>		
Create an image of the partition(s) required to backup and restore Windows	MBR Disk 1 [47874187] - SATA SSD S8FM61.3 <894.25 GB>		
Create a File and Folder backup	Image: 1 - System Reserved (None) Image: 2 - (C:) Image: NTFS Active NTFS Primary		
 Other Tasks Details 	384.4 MB 549.0 MB I 194.25 GB 893.71 GB	•	
	Actions 🕶		
File System: Empty Free Space: 223.57 GB			
Iotal Size: 223.57 GB Start Sector: 63	Disk 2 [00000000] - SATA SSD SBFM <223.57 GB>		
End Sector: 468,862,123			
	223.57 GB		



4) Click on « Clone this disk... »

MBR Disk 1 [47B74187] - SATA SSD SBF	M61.3 <894.25	5 GB>
1 - System Reserved (None) NTFS Active		2 - (C:) NTFS Primary
384.4 MB 549.0 MB	•	194.25 GB
Actions Clone this disk	Image this d	lisk
Actions Clone this disk Disk 2 [00000000] - SATA SSD	Image this d SBFM <223	lisk 3.57 GB>

5) Click on « Select a disk to clone to... »

				Select a different	source
<u></u>	MBR Disk 1 [4/B/418/] - SATA SSD SBP 1 - System Reserved (None) NTFS Active	-M61.3 <894.25 GB:	> 2 - (C;) NTFS Primary		
	384.4 MB		194.25 GB		
		Select	t a disk to clone to		



6) Click on [00000000] SATA SSD

	Q	MBR Disk 1 [47874187] - SATA SSD SBF	M61.3 <894.25 GB	>	
		1 - System Reserved (None) NTFS Active		2 - (Ci) NTFS Primary	
		384.4 MB 549.0 MB	V	194.25 GB 893.71 GB	
tination	Loca	l disk 🕜 Undo	i c	opy selected partitions	
5			Select	t a disk to clone to	
	1.00			110-01	
	R	Disk 2 [0000000] - SATA SSD	SBFM <223.5	57 GB>	

7) Click on « Copy selected partitions »

		K	2 - 2004 75 (20)		Select a different source di
	<u>×</u>	1 - System Reserved (None) NTFS Active		2 - (C:) NTFS Primary	
		384.4 MB 549.0 MB	V	194.25 GB 893.71 GB	v
] [R	Disk 2 [00000000] - SATA SSD 58	SFM <223.57 0	3B>	



8) Select the main partition (Primary)

Local di	sk		Select a different source
R	MBR Disk 1 [47B74187] - SATA SSD SBFM61. 1 - System Reserved (None) NTFS Active	3 <894.25 GB>	> 2 - (C;) NTFS Primary
	384.4 MB		194.25 GB
n Loci	al disk	E Co	opy selected partitions <u>Select a different targe</u>
n Loci	549.0 MB al disk Image: Comparison of the second sec	E Cc 3FM <223.57 G	opy selected partitions <u>Select a different targe</u> 3B>

9) Click on the end of the partition and drag the slider to change the size of the main partition (Primary). Click on OK to confirm

(by moving the cursor to the right, you optimize the size of the partition by using any the free space on the SSD.)

				Drive Letter:	Auto	 Partition Type: 	Primary ~
🚺 2 - (Auto)							
NTFS Primary							
194.25 GB 217.30 GB							
194.25 GB 217.30 GB							
194.25 GB 217.30 GB Partition Size:	217.305	GB	~		Maximum Size	e Minimum Size	Original Size
194.25 GB 217.30 GB Partition Size: Free Space:	217.305	GB GB	~		Maximum Size	e Minimum Size GB 194, 30 GB	Original Size 893.71 GB
194.25 GB 217.30 GB Partition Size: Free Space:	217.305	GB	>		Maximum Size 223.03 G	Minimum Size B 194.30 GB Start Sector:	Original Size 893.71 GB 1,126,400



10) Click directly on "Finish" at the bottom of the screen to start cloning



11) Click on OK



12) Wait for the end of cloning

The Cloning time is very variable depending on the amount of data to be cloned and the copying speed of the computer (a few minutes to several hours)

R	Creating volume snap: Volume Snapshots Cre	shots eated		^
	C:\	\\?\GLOBALROOT\Device\Harddisk	VolumeShadowCopy5	
	Source Disk: Geometry: BPB: Destination Disk:	MBR Disk 1 [47874187] - SATA SSD 116737\63\512 255\63\512 Disk 2 (00000000] - SATA SSD	SBFM61.3 <894.25 GB>	
	Clone Type: Verify: Delta: SSD Trim:	Intelligent sector copy Y N Y		
Operal	ion 1 of 2			
	Copy Partition:	1 - System Reserved NTFS 384.4 MB / 549.0 MB		
	Destination:			
	Start Sector:	2,048		
	Partition Type:	Active		
	Checking file system			
	Processing:	\\.\PHYSICALDRIVE0		~
Overall F	rogress: 0 %			
Current	Progress: 37 %			



III. installation procedure of MacriumReflect

1) Go to the website https://www.macrium.com/reflectfree and click on « Home use »



2) Enter your email address and click on "Continue"

<u> </u>	2	3
Enter Email	Add Details	Check Email
ase enter an email (optional) to r	egister or download	
will not use this to communicate with yo third parties and you can unsubscribe at	u until you have indicated your preferences. any time.	We will never sell or pass on your detail
// // // // // // // // ///	42 m 17	



3) Click on the first link in the email Macrium Software Registration that you received.

Nous vous remercions de votre intérêt pour Macrium Reflect.

Votre code d'enregistrement est: 1D6C-USUW

Pour compléter votre inscription et commencer le téléchargement, s'il vous plaît cliquer sur le lien suivant. https://www.macrium.com/download/VerifySoftware?id=1D8C-USUW&type=h&edition=5&download=y

Votre code d'enregistrement est jumelé à votre adresse e-mail. Utilisez copier-coller pour entrer si vous êtes invité dans la page d'inscription de l'installateur.

Nous espérons que vous trouverez notre logiciel utile. L'équipe Macrium

A tout moment, vous pouvez vous désabonner ou mettre à jour vos options de communication ici. https://www.macrium.com/consent?id=1D8C-USUW

S'il vous plaît lire sur la façon dont nous protégeons votre vie privée ici. https://www.macrium.com/terms-and-privacy-statement

4) Click on « Save or Download file »

Your image is everything	
Buy Now Products Support Pa	rtners About Contact
	Ouverture de ReflectDLHF.exe X
	Vous avez choisi d'ouvrir :
Macrium Reflect	qui est un fichier de type : Binary File (5,0 Mo)
	Voulez-vous enregistrer ce fichier ?
	Enregistrer le fichier Annuler

5) Click on RedfectDLHF.exe in download to launch the installation





6) Click on "Download" and then click on "Next" at the bottom of each window

Macrium Re	flect Download Agent		
Select Ins	tallation Package		
J	Select Macrium Reflect software to down	load	
	Choose Edition	Free	\sim
	🔿 Or enter license key		
Download	Location & Options		
*	The most appropriate install package will select additional components for subsequ	be downloaded for your computer ent offline installs.	r. Click Options to
	Save to folder C:\Users\tech1\Downloa	ds	
	Run installer directly after downloadin	g	Options
Registrati	on Information		
	Name N/A		
<u> </u>	Company Name N/A		
Download	Information		
Æ	Selected Download: Reflect Installer Only	1	
<i>A</i>	OMB of OMB (0%)		
			Pause
		Help Downloa	ad Close

7) When you arrive at the "Registration" window uncheck the box "Register ..." Before clicking Next

