

Writing Disk Images on Windows

Goal: Copy an installed OS file-system image onto a drive that you will install into a LANforge system that lacks display hardware.

Many LANforge ICE WAN emulator machines are embedded systems that lack display hardware. Installing an OS using only the serial console can be very inconvenient. The easy solution is to perform the installation on similar hardware that does have display hardware, and then move the drive to the embedded device. Here, we learn how to use Etcher on Windows to write a compressed disk image to an mSata drive plugged into a USB3 adapter.



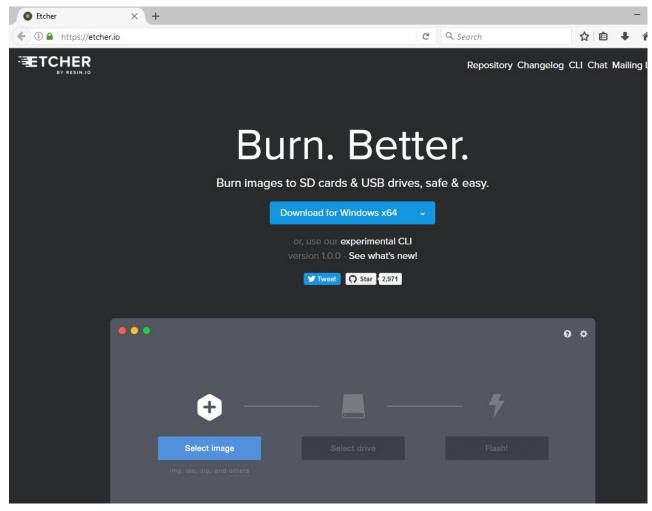
- 1. Here we're using *Etcher* which handles compressed file system images without any trouble. There are other programs (like Win32 Disk Imagaer or dd for windows) but those are more complex to use.
- 2. Items we'll want:
 - A. 30GB or larger mSATA drive



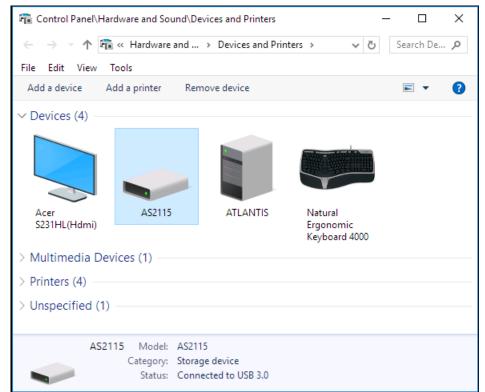
B. USB3 mSATA drive adapter



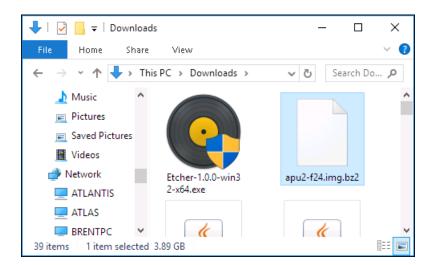
3. Download and install Etcher



4. Identify your drive in Control Panel -> Hardware and Sound -> Hardware and Printers.



5. Download your image file:



6. Start Etcher

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+		4	
Calast image			
Select image img, iso, zip, and others			
ing, iso, zip, and others			
	🌔 🌔 resin.io		

7. Select the compressed image:

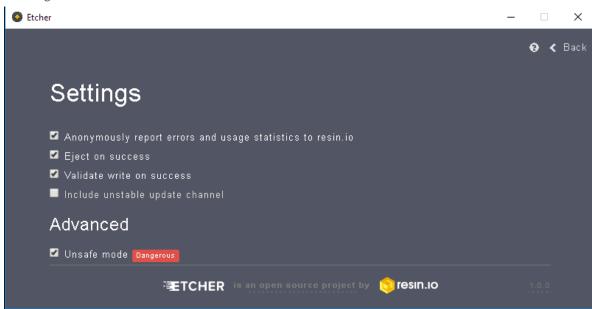
Open					×
← → × ↑ 🕇 > This	PC > Downloads		✓ Ö Search Do	wnloads	٩
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Videos Local Disk (C:) pub (\\fs3\d2)	New folder	2016-07-01-atlant is-minidumps.zip	apu2-f24.img.bz2	jdk-9-ea+161_lin ux-x64_bin.tar.gz	
 Libraries Camera Roll Documents 	₽ z	Zz	Zz	a	
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File nam	e: apu2-f24.img.bz2	2	✓ OS Image Ope	es (*.bz2;*.dmg;*.dsk;* n Cancel	. ~

8. Select the removable drive

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apu2-f24.img.bz2 4.2 GB Select drive		
Change		
ETCHER is an open source project by 🤤 resin.io		

9. You might have to enable unsafe mode if the drive you plugged in has previously been used

A. in Settings, enable Unsafe mode



B. Select the removable drive

Stcher			-	-	×
	Select a Drive ×) 		Ð	٥
	INTEL SSDSC2KW240H6 - 240.1 GB C: Drive Contains Image				
apu2-f24.img.bz2 4.2 GE	ASMedia AS2115 USB Device - 6 0.0 GB WYPHYSICALDRIVE1		7		
Change	System Drive				
	Continue				
ET.		iesin.io			

10. Select the removable drive

Stcher		_	□ ×
epu2-f24.img.bz2 4.2 GB Change	Select a Drive × INTEL SSDSC2KW240H6 - 240.1 GB C: Drive Contains Image ASMedia AS2115 USB Device - 6 0.0 GB N.VPHYSICALDRIVE1 System Drive	F lash!	€ ¢
	Continue		

11. Write image.

A. click Fl	lash			
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	+		- 7	
	apu2-f24.img.bz2 4.2 GB	ASMedevice 60.0 GB	Flash!	
	ETCHE	R is an open source project by 🁏	resin.io	1.0.0

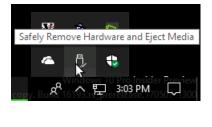
B. It might take 20 minutes to write a 20GB (uncompressed) image.

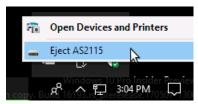
S Etcher			-		×
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÷ —		4			
apu2-f24.img.bz2 4.2 GB	ASMedevice 60.0 GB	0%			
		ETA: 42m29s	1.64 MB	1/s	
	IER is an open source project by 🧯	resin.io			

12. Make coffee.



13. When the image is finished writing, close etcher and use the Safely Eject Thing dialog in the system tray.A. right click





14. Unplug your drive from the computer, remove the msata drive drive from the USB caddy and then install into your embedded device

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B. select device