## RESTORING IFCB SSD IMAGE FOR LINUX ON ADLINK CPU

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\*\* This procedure only applies to IFCB's that have a ADLink CPU installed. The majority of in-service IFCB's fall into this category. Pictured below is a ADLink CPU. One unique indicator to look for is the large aluminum heat sink mounted to the CPU.



\*\* Back up all IFCB data prior to proceeding. As part of this procedure, all information stored onboard the SSD will be deleted.

\*\* After completing this procedure, the IFCB SSD will contain an image that utilizes a Linux operating system and the most recent version of IFCBacquire within the Linux OS.

	DOCUMENT NUMBER	REV	EFFECTIVE DATE	PAGE
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		See	e final page for revision details.	1011
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TLF / 02-22-2023	Procedure	Restor	Restoring IFCB SSD Image for Linux on ADLink CPU	
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- 1)Download the image file from the link below onto your personal workstation. a. <u>https://ifcb.s3.amazonaws.com/ISO/IFCB\_ADLINK\_LINUX.IMG</u>
- 2)Create a bootable USB drive which will be used to restore the IFCB SSD image.
  - a. Any USB drive should work given it is a minimum of 4GB in size. Any data on this drive will be deleted as part of this process.
  - b. Using an application like 'Rufus' or 'Etcher', flash the downloaded image to the USB drive.
    - i. Rufus https://rufus.ie/en/
    - ii. Etcher https://etcher.download/
- 3)Automated restore of the IFCB SSD (WARNING: This will delete all content stored on the IFCB SSD, back up your data!)
  - a. With the IFCB powered off, plug in the newly created USB drive, keyboard & VGA monitor.
  - b. Power up the IFCB and enter the BIOS setup utility by hitting the 'Delete' key repeatedly during boot up.

BIDS Vendor Core Version Compliancy Project Version Build Date and Time	American Megatrends 5.010 UEFI 2.4; PI 1.3 CMXBT 1.14 x64 01/25/2018 13:09:53	▲ System Management
CPU Configuration Microcode Patch BayTrail SoC	90a D0 Stepping	
Memory Information Total Memory	4096 MB (D0891)	
IGFX VBIOS Version TXE Information Sec RC Version TXE FW Version	3798 00.05.00.00 01.01.00.1089	++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values 5: Optimized General
▶ System Hanagement System Date System Time	[Wed_2023/02/22] [17:57:53]	F10: Save & Exit ESC: Exit

- c. Using the 'right-arrow' key, move to the last tab in the BIOS utility. 'Save & Exit'
- d. Within the 'Boot Override' section, select the entry corresponding to your USB drive AND with a UEFI label (UEFI: U1 USB), press 'Enter'.

Discard Changes	Exit and Exit		
Save Changes and Discard Changes	Reset		
Save Options Save Changes Discard Changes			
Restore Default Save as User De Restore User De	S faults stoults		
Boot Override UEFI: Built-in PO: Samsung SS OS on hard dri UEFI: U1- USB UEFI: U1- USB U1- USB	EFI Shell D 860 PRO 51268 Ve (PO: Samsung SSD 860 PRO 51268)	++: Select t1: Select Enter: Sel +/-: Chang F1: Genera F2: Previo F3: Ontime:	t Screen t Item ect e Opt. I Help Is Values ed Defaulto
Launch EFI Sh ▶ Reset System	:11 from filesystem device with ME disable ModeMEUD000	Fio: Save & ESC: Exit	Exit

- e. Wait for the restore process to complete. This may take up to 30 minutes. The OS will power off the system when complete.
- f. Remove power from the IFCB. Remove the USB drive.
- g. Power the IFCB back on.
- h. Before using the IFCB, close IFCBacquire and perform the system customization steps below.
- 4) IFCB customization
  - a. Change the IFCB user password with the "passwd" command in terminal (xterm). The old password is "mclane". (We suggest using the serial number as the new password, MLXXXXX-XX).
  - b. Change the ROOT password by logging-in as root with the "su -" command in terminal and the "passwd" command. (We suggest using the serial number as the new password, MLXXXXX-XX).
  - c. Change the VNC password with the command "sudo x11vnc -storepasswd XXXXX /etc/x11vnc.pass" in terminal, where XXXXX is the new password. (We suggest using the serial number as the new password, MLXXXX-XX).
  - d. Change the ImagerID entry in the settings file "/home/ifcb/IFCBacquire/Host/Settings.txt" to match your IFCB number.
  - e. Change the hostname by editing "/etc/hostname" with the command "sudo nano /etc/hostname" in Terminal. Replace "IFCB000" with "IFCBXXX" (where XXX is your IFCB number). Type Ctrl-X and Y.
  - f. Complete changing the hostname by editing "/etc/hosts" with the command "sudo nano /etc/hosts" in Terminal. Replace all occurrences of "IFCB000" with "IFCBXXX" (where XXX is your IFCB number). Type Ctrl-X and Y.
  - g. Power off IFCB

## 5) Set syringe zero position

- a. With the IFCB powered off, manually drive the syringe to the zero position.
- b. Power on IFCB
- c. Launch the WebUI and utilize the 'set syringe zero' function located within the 'Fluids' tab.