

Gen3 to Gen4 Conversion

Use only with Toolboxes and RFID Lockers with Serial Numbers beginning with Z3 or Z4.

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Kit Contents

QTY.	PART NO.	DESCRIPTION
1	3-27206A	MOBO MX6412J ATC V4
1	3-13009A	WIFI CARD INTEL AX210NGW
1	3-18329A	ATC STD WIN10 LTSC Z7-Z8 IMG
1	3-97626A	WINDOWS 10 IOT VALUE LTSC 2019
1	3-12509A	NVME SSD 500GB M.2 2280
2	3-12609A	MEMORY 8GB DDR4-3200 SDRAM
2	3-12909A	ANTENNA WIFI EXTERNAL DIPOLE
1	EAE0049J92A	CABLE-USB,7"
1	EAS2166J35B	BRKT PC MTG ATC V4
1	EAW0278J49A	CABLE COM BCB TO MOBO V3B
10	5-03945A	MOUNT-CABLE ABM25-A
10	5-845	TIE WRAP
4	1-6706	MSCR PNH & LK

Device Data Backup

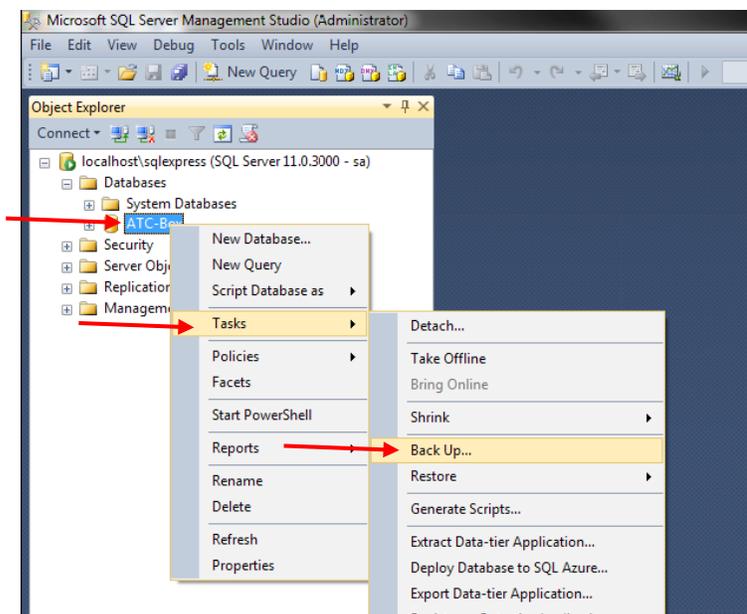
Version 8

If the operating system of the current system is still bootable, follow the instructions in this section to backup important ATC configuration data.

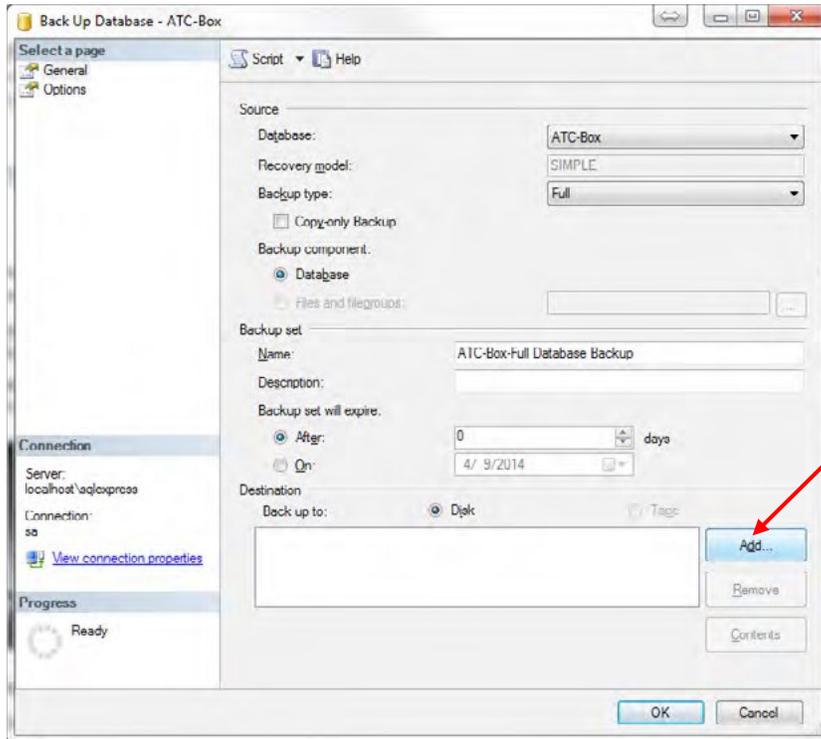
1. Power on the system and connect a USB Keyboard, Mouse, and USB storage Device.
2. If the ATC software is still functional navigate to Menu => Service (**14231142**) => SQL Server Management Studio
3. If the ATC software is not functional and you have a Task Manager window open, click New Task on the Applications tab and run: "ssms.exe"
4. Log into the localhost\SQLEXPRESS server using a username of "atcSa" (Win7) or "sa" (Win10) and a password of "FOurth@ndInch3\$".



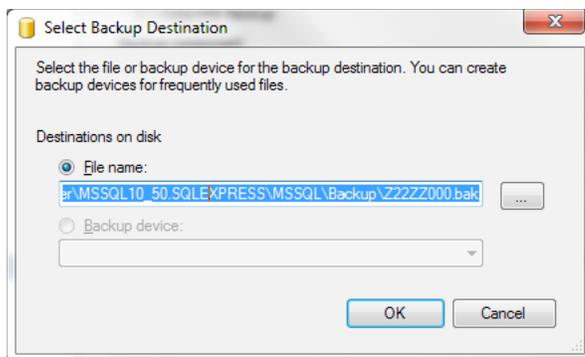
5. Right-click on the ATC-Box database and select <Tasks> <Back Up>.



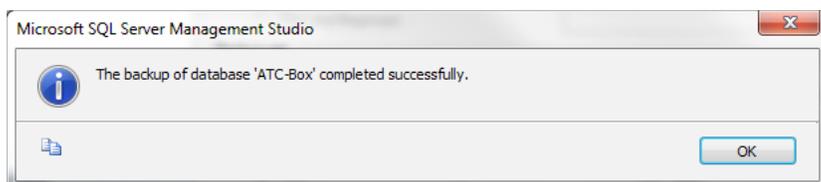
- On the Back Up Database Screen Remove any files already present in the Destination section. Then click on the < Add > button.



- Enter the following in the File Name field replacing Z22ZZ000 with the box's serial number: E:\Microsoft SQL Server\MSSQL10_50.SQLEXPRESS\MSSQL\Backup\Z22ZZ000.bak and click <OK> twice.



- Press OK on the Back Up Database window.



9. Close SQL Server Management Studio.
10. Open a Windows Explorer window either from the ATC Service screen or by running explorer.exe as a New Task from the Task Manager.
11. Copy the files from the following locations to the USB storage device
 - a. E:\Microsoft SQL Server\MSSQL10_50.SQLEXPRESS\MSSQL\Backup\
 - b. E:\Images
 - c. E:\Box_Config\unaligned foam files
 - d. E:\Bin\DewarpDataCamera#.dwp
 - e. E:\Bin\Employee Biometrics (**IGNORE IF NOT PRESENT**)
 - f. E:\Bin\Faces (**IGNORE IF NOT PRESENT**)
12. Navigate to the Computer level in Windows Explorer, right-click on your USB storage device, and select Eject.
13. After a few seconds remove the USB storage device from the ATC toolbox.
14. Turn off the Device and proceed to the Hardware Procedure based on the device (Toolbox or Locker).

L5Connect (Formally True-Site)

ATC Devices automatically backup their data to the L5 Connect service, but if you want to have a live backup or if you are not sure if the toolbox has been successfully backed up then follow these steps.

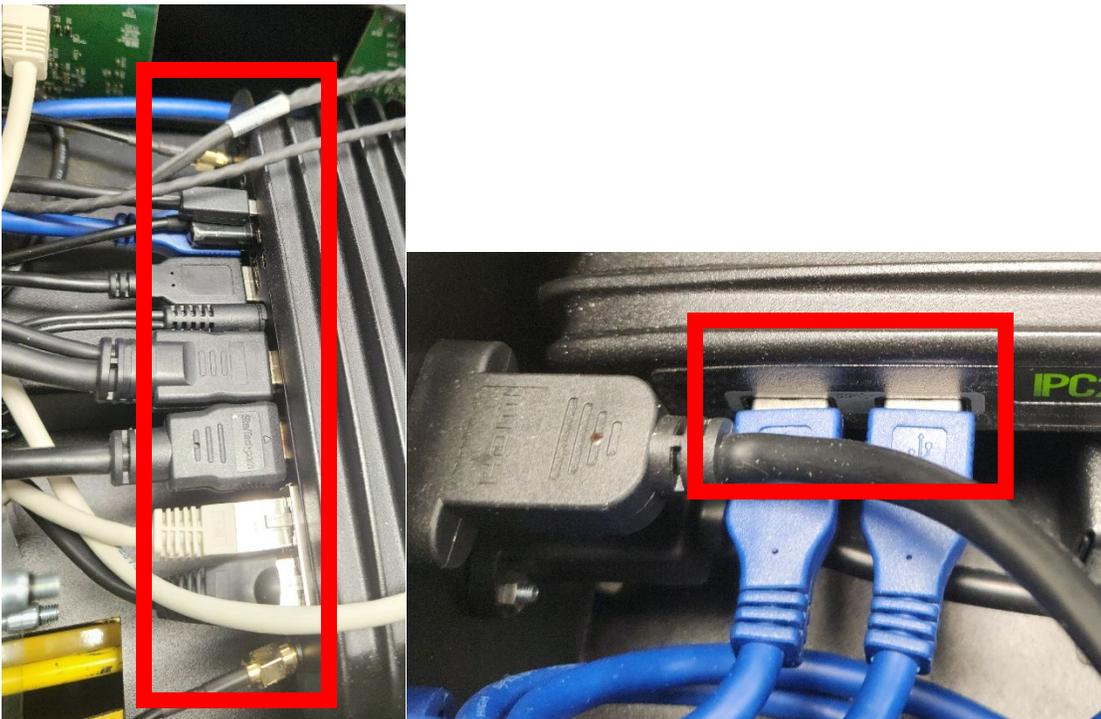
1. Power on the system and connect a USB Keyboard, Mouse, and USB storage Device.
2. Close the SmartDevice GUI by pressing ALT-F4 on your keyboard.
3. When the Device Recovery Screen is displayed tap Service and input the code **14231142**.
4. Select Windows Explorer
5. Navigate to E:\V9\Tool Control System
6. Copy the SmartDevice folder to the USB Storage Device.
7. Once copied, close the explorer window, and return to the main Device Recovery Screen.
8. Turn off the Device and proceed to the Hardware Procedure based on the device (Toolbox or Locker).

Toolbox Hardware Procedure

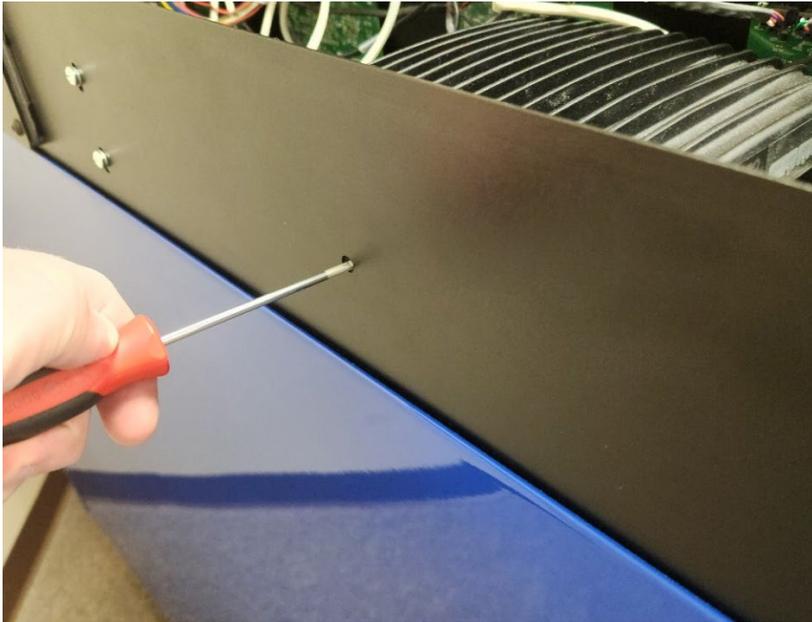
1. After Backing up Box Data Power Off Toolbox, unplug AC Power and remove the four screws holding the top and slide the top forward.



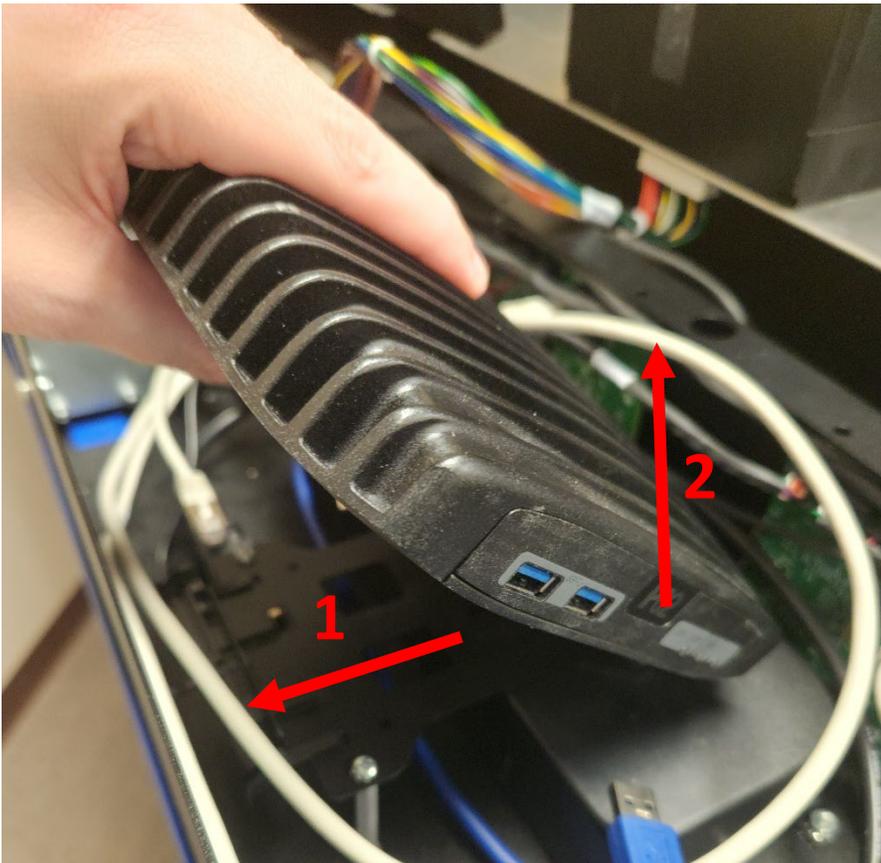
2. Disconnect all wires connected to the 3.0 IPC2 computer



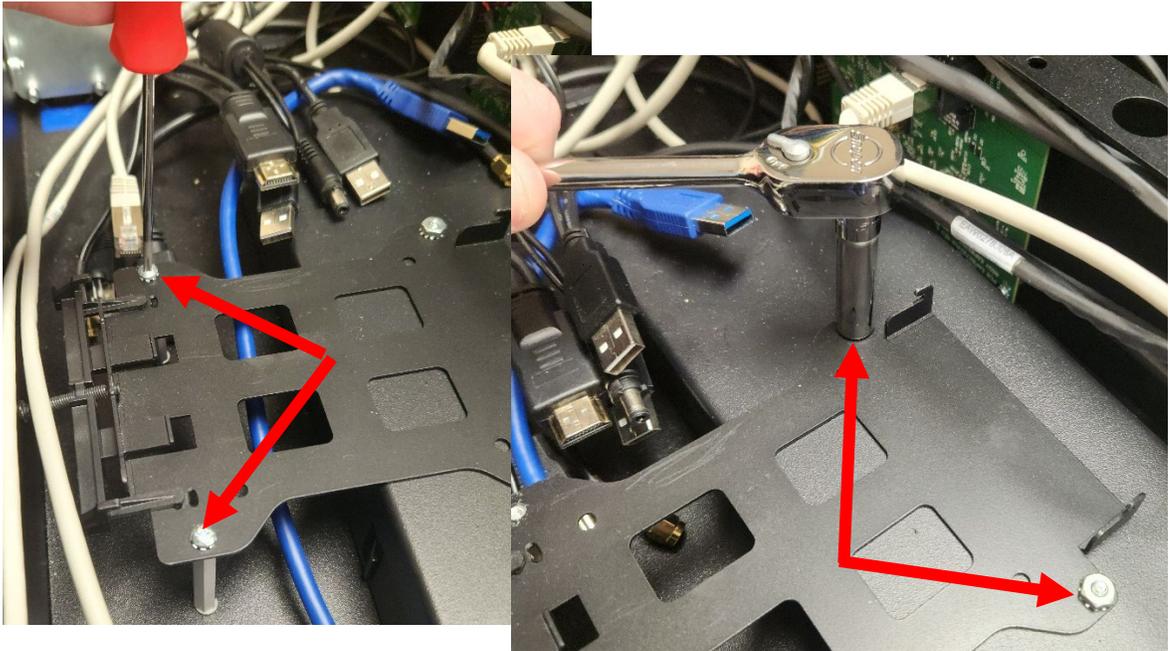
3. Loosen the retaining screw holding the IPC2 in place



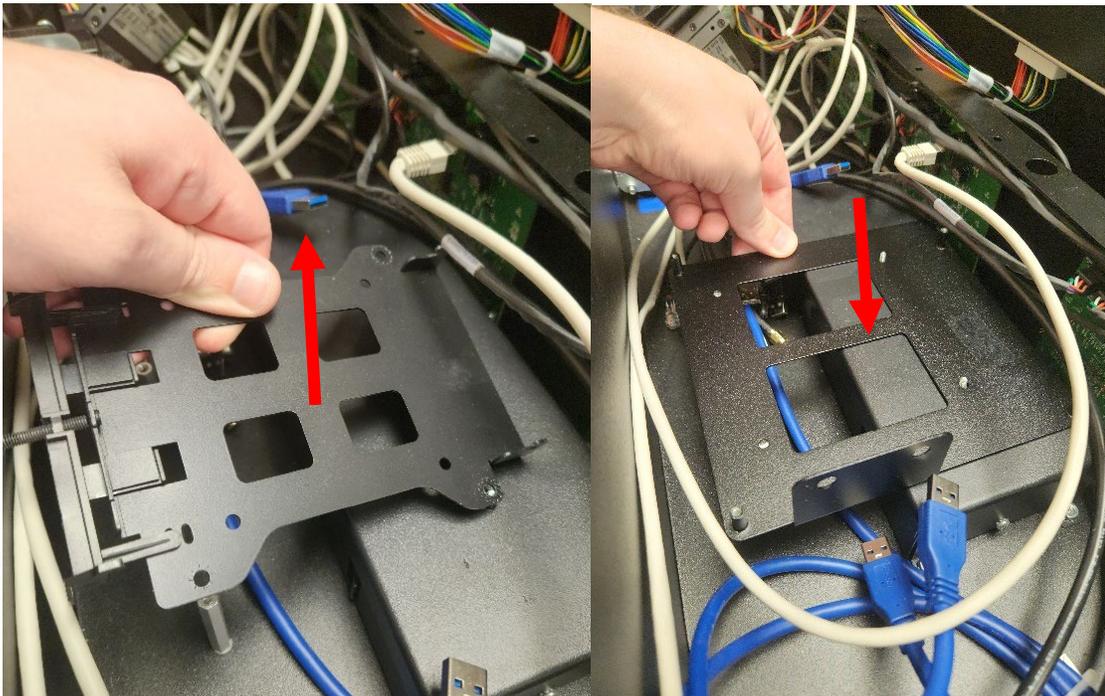
4. Pull then lift to remove it from the bracket



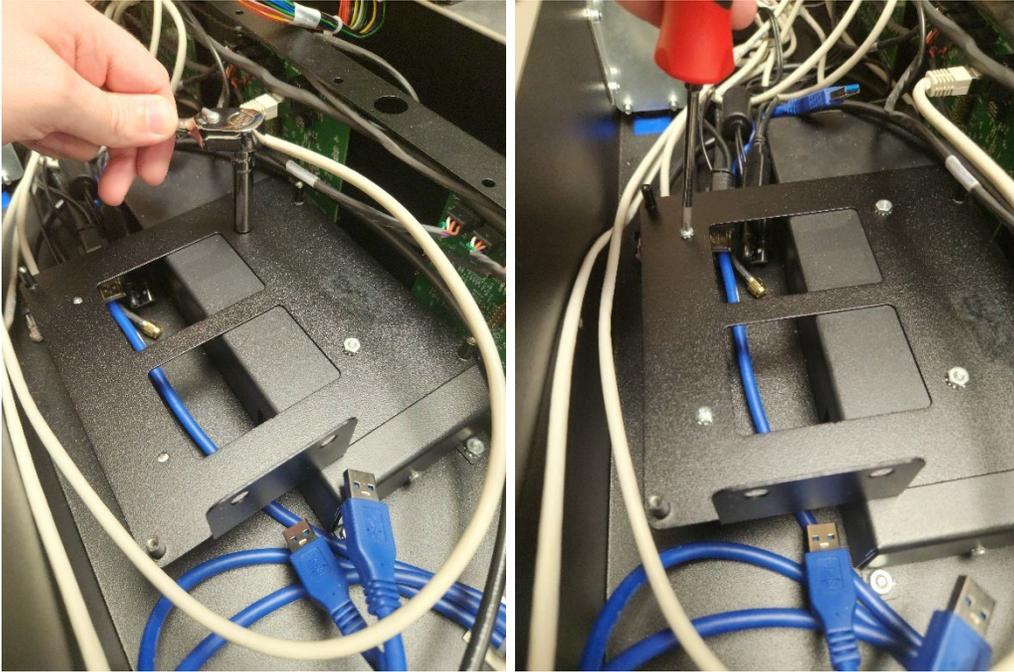
5. Remove the two screws and the two nuts holding the bracket in place



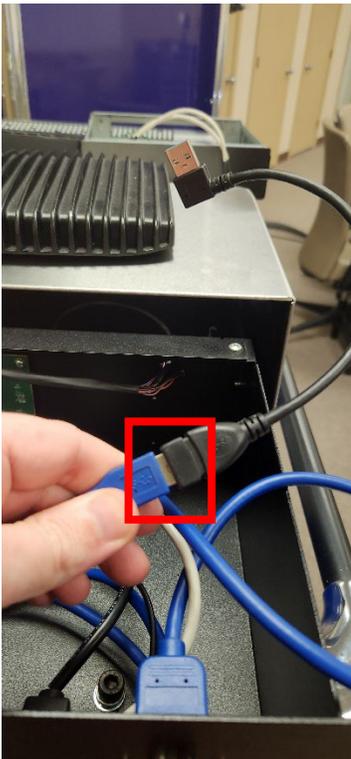
6. Remove the old bracket and place the new Bracket in its place.



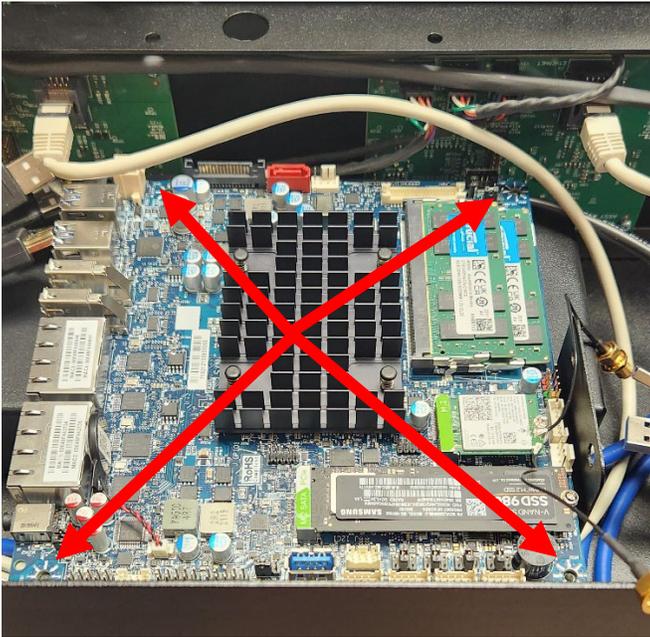
- Using the same nuts and screws, secure it down. You might need to push on the post to align the screw holes to the new bracket.



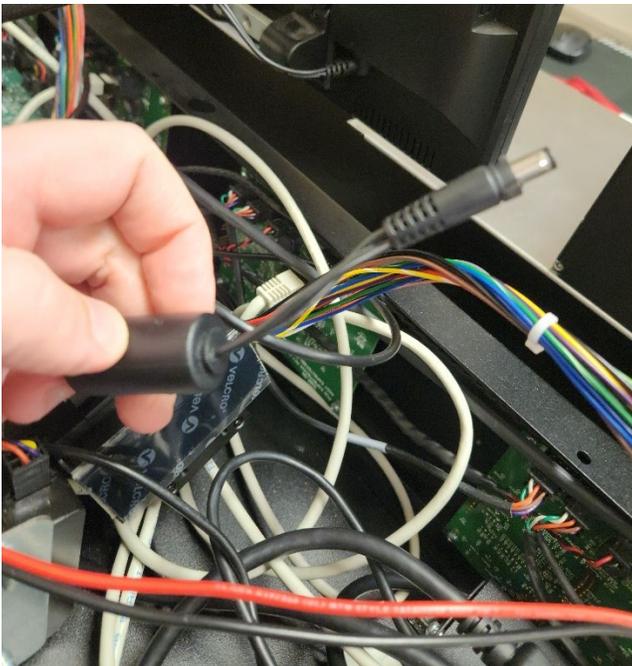
- Plug the 90° USB 3.0 extension cable onto one of the blue USB extensions going to the back of the toolbox.

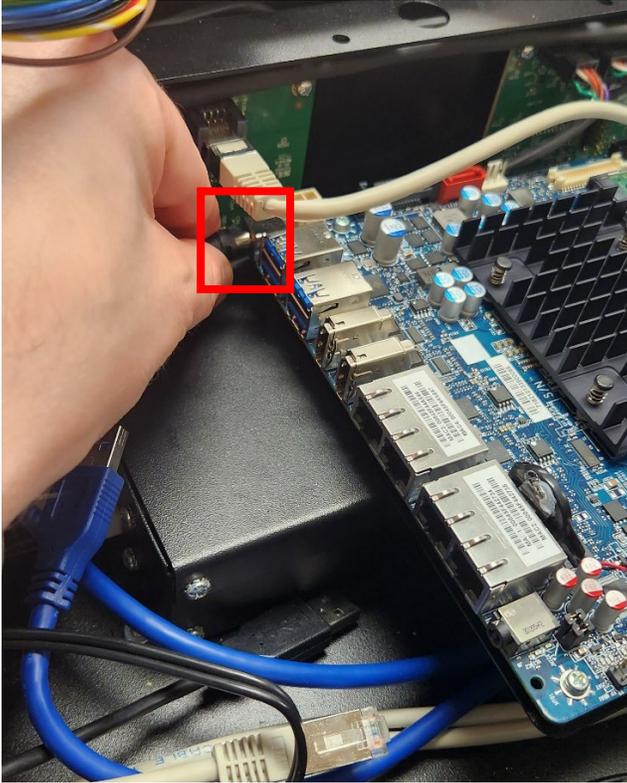


9. Place the new Gen4 MX6412J PC onto the bracket and secure it with the four screws.

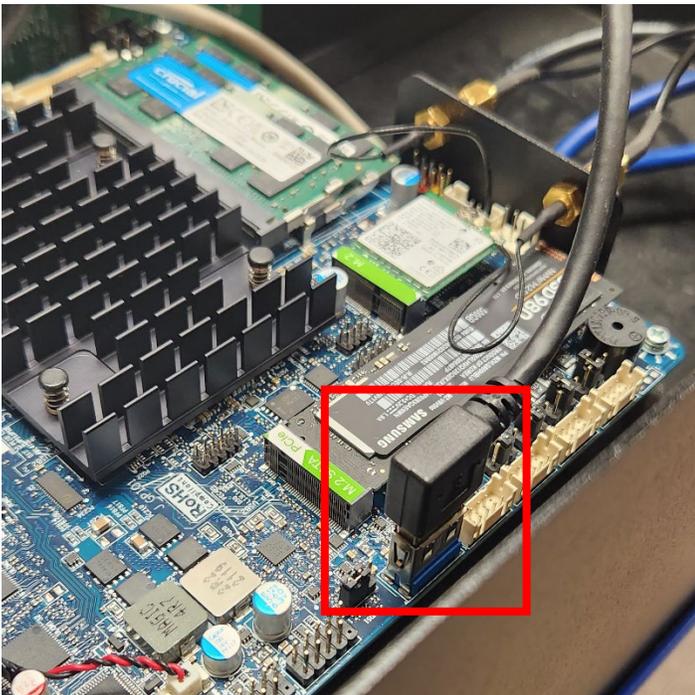


10. Plug the barrel connector of the Power harness into the PC.

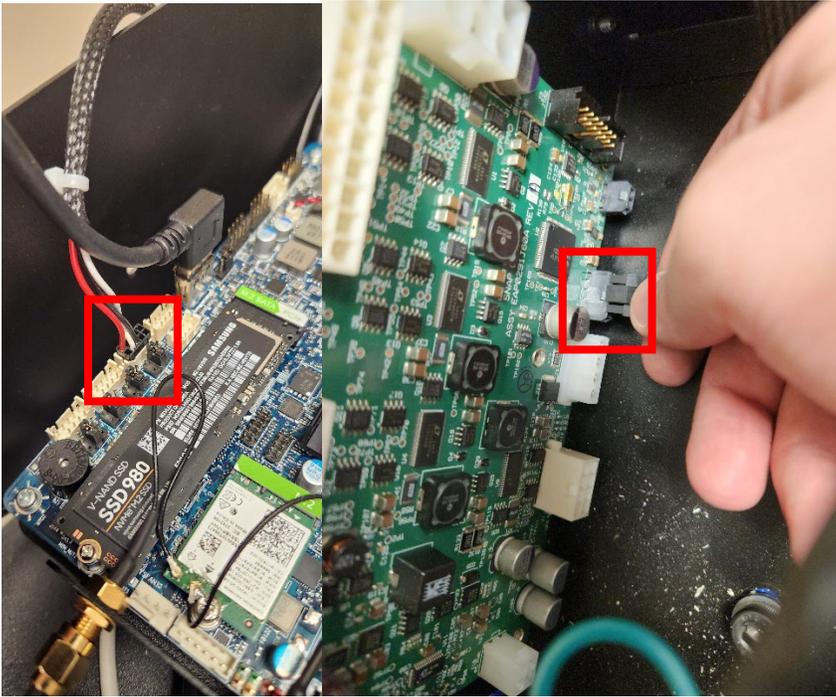




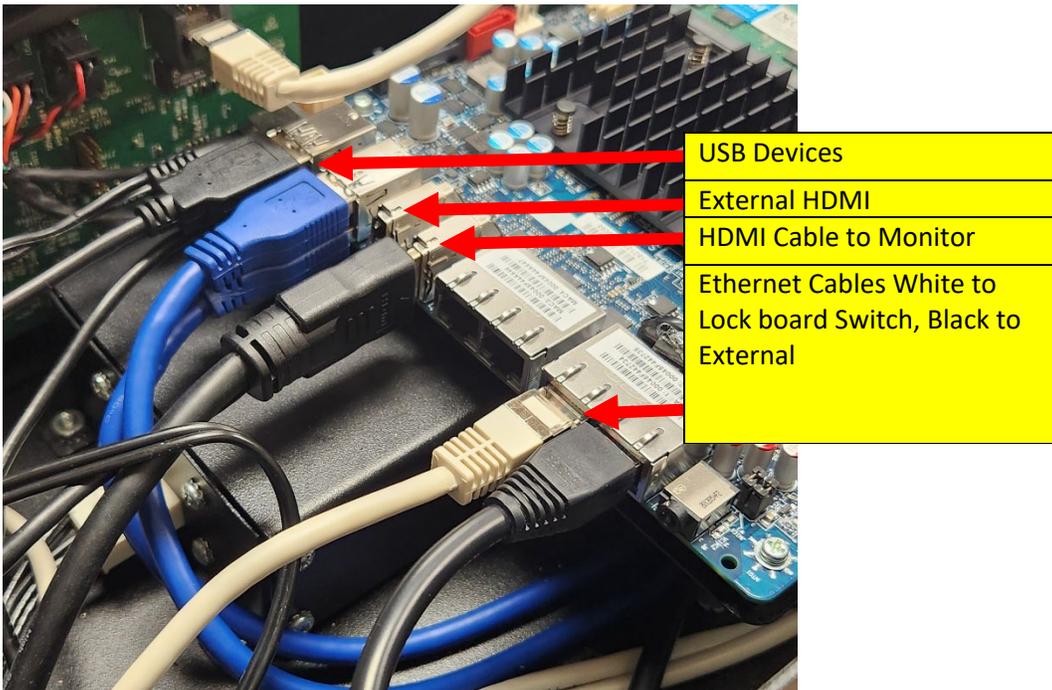
11. Connect the 90° USB 3.0 extension cable to the USB port on the PC



12. Remove the old COM cable and connect the new COM cable to the PC and then connect it to the Battery Control Board.



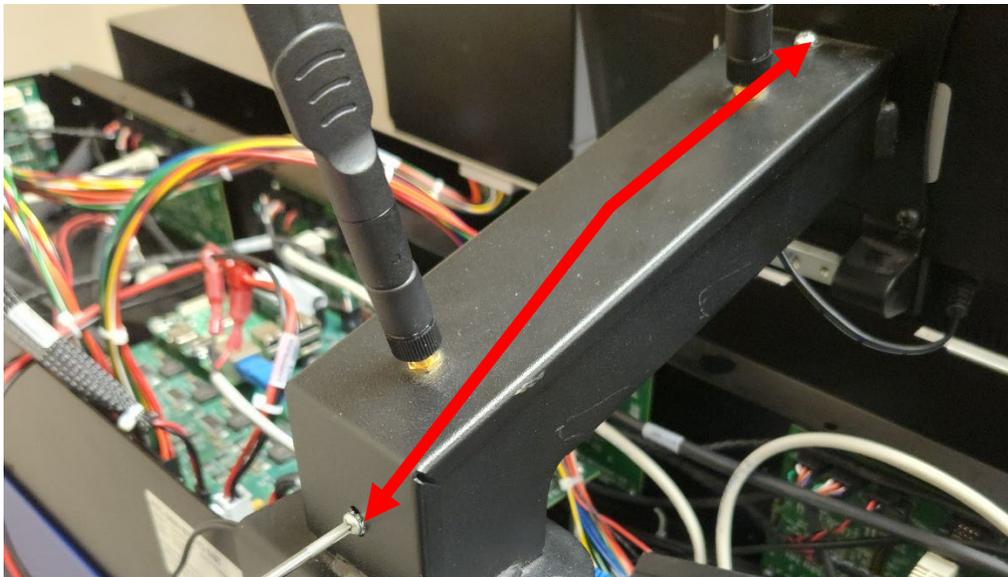
13. Connect all other connectors to the PC.



14. Remove the old Wi-Fi antennas from the Monitor Arm



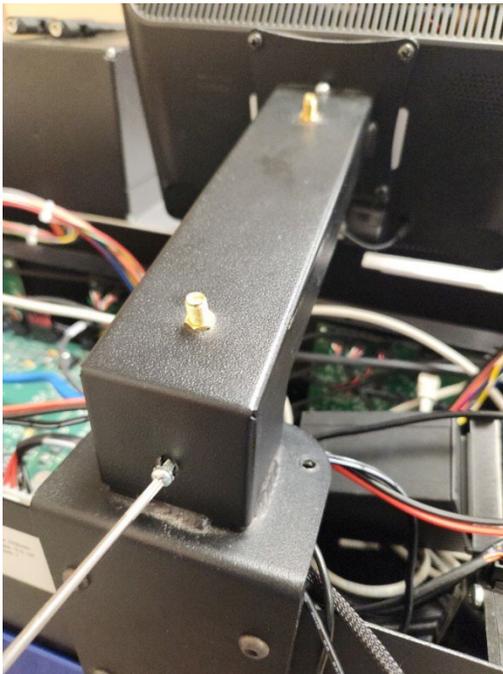
15. Remove the two screws securing the cover to the wire channel of the monitor arm and remove the cover.



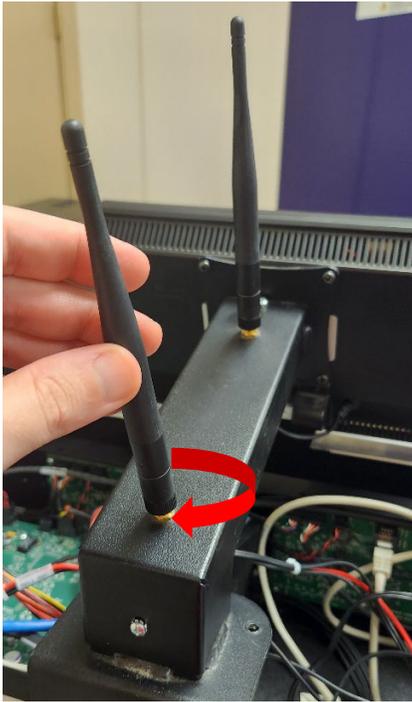
16. Clip the zip tie securing the excess Wi-Fi antenna extension cables.



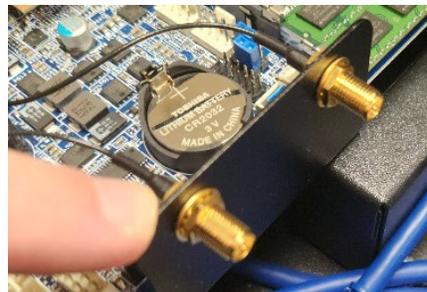
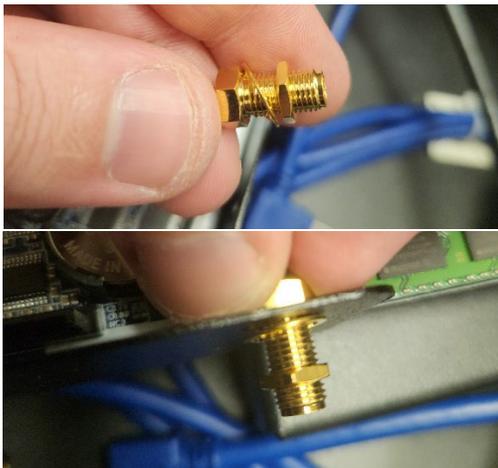
17. Place the Monitor Arm cover back and secure it with the two screws.



18. Screw the new Wi-Fi antennas to the connectors on the Monitor Arm.



19. Secure the Wi-Fi cables off the Wi-Fi card on the PC bracket, then connect the Wi-Fi antenna Extension Cables to them.



20. Power on the Toolbox and verify that the hardware is operational

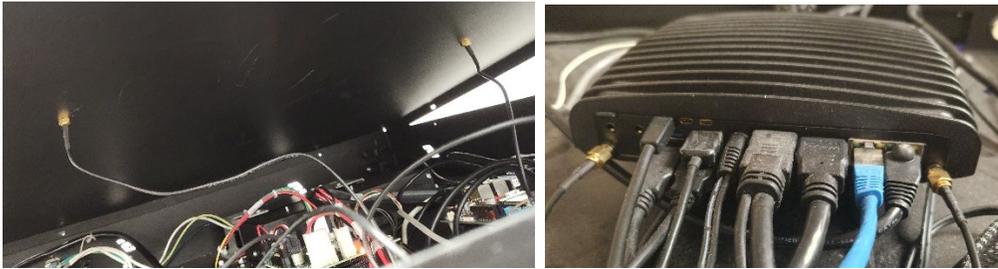
21. Restore the backup data to the toolbox. (Please Follow Restore Data Section in this guide.)

RFID Locker Hardware Procedure

1. Power off the Locker and remove AC Power Plug.
2. Remove the eight screws securing the top to the chassis (Two on each side).



3. Lift the top carefully.
4. Unscrew the two Wi-Fi antenna cables from the 3.0 IPC2 PC.



5. Remove the top and set it to the side.
6. Unplug the remaining cables connected to the 3.0 IPC2 PC.



7. Loosen the retaining screw holding the 3.0 IPC2 PC.



8. Push then lift to remove the 3.0 IPC2 PC.



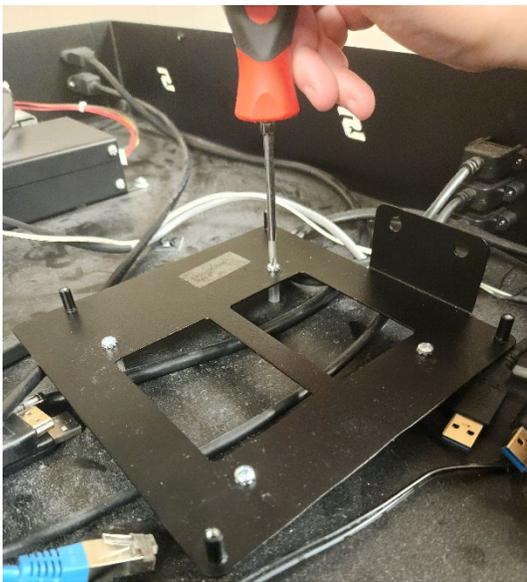
9. Remove the four screws holding the 3.0 PC bracket in place.



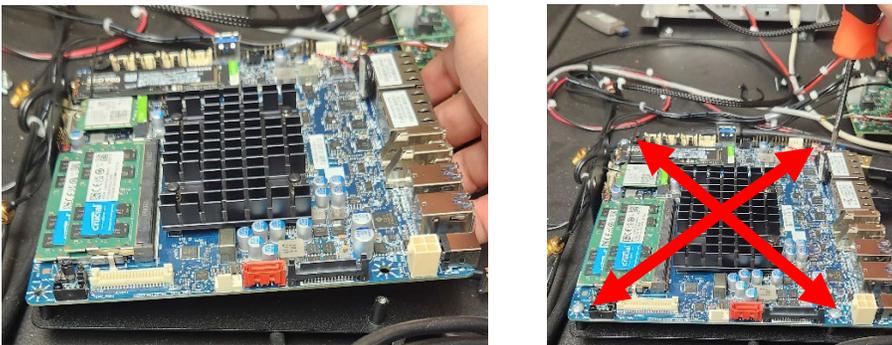
10. Remove the 3.0 PC bracket and place the Gen4 PC bracket in its place.



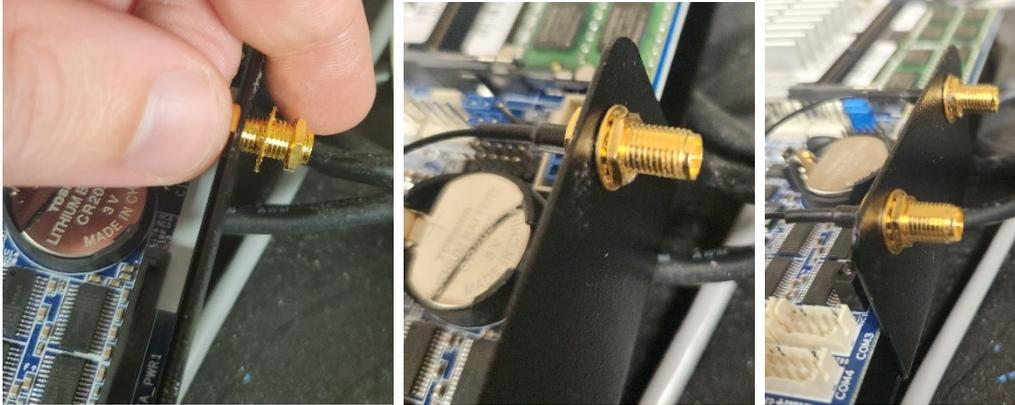
11. Using the same screws, secure the Gen4 bracket.



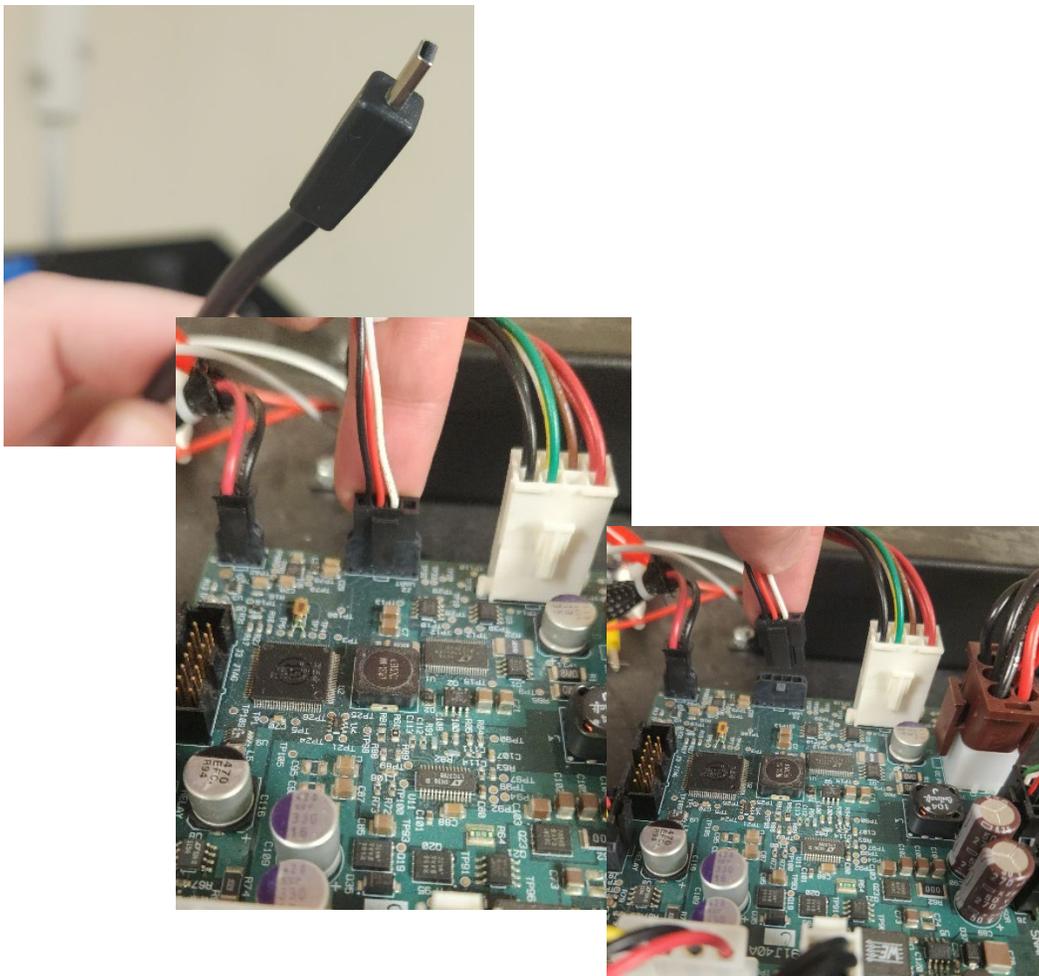
12. Place the Gen4 PC onto the bracket and secure it with the four included screws.



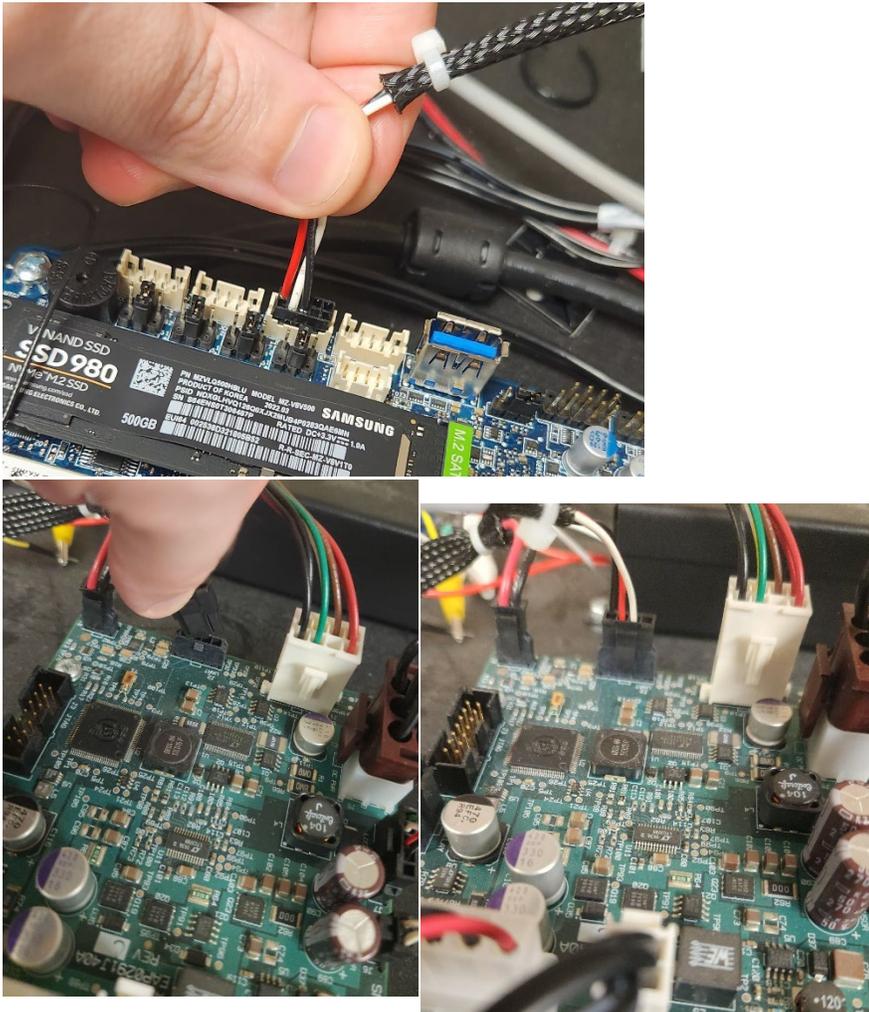
13. Secure the two Wi-Fi Antenna cables from the Gen4 PC to the L Bracket.



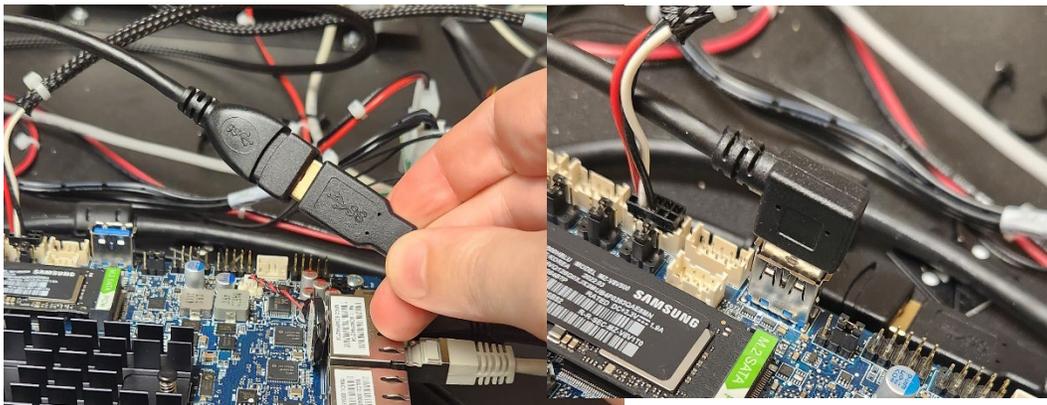
14. Remove the old 3.0 PC COM cable from the Battery Control board (you can discard).



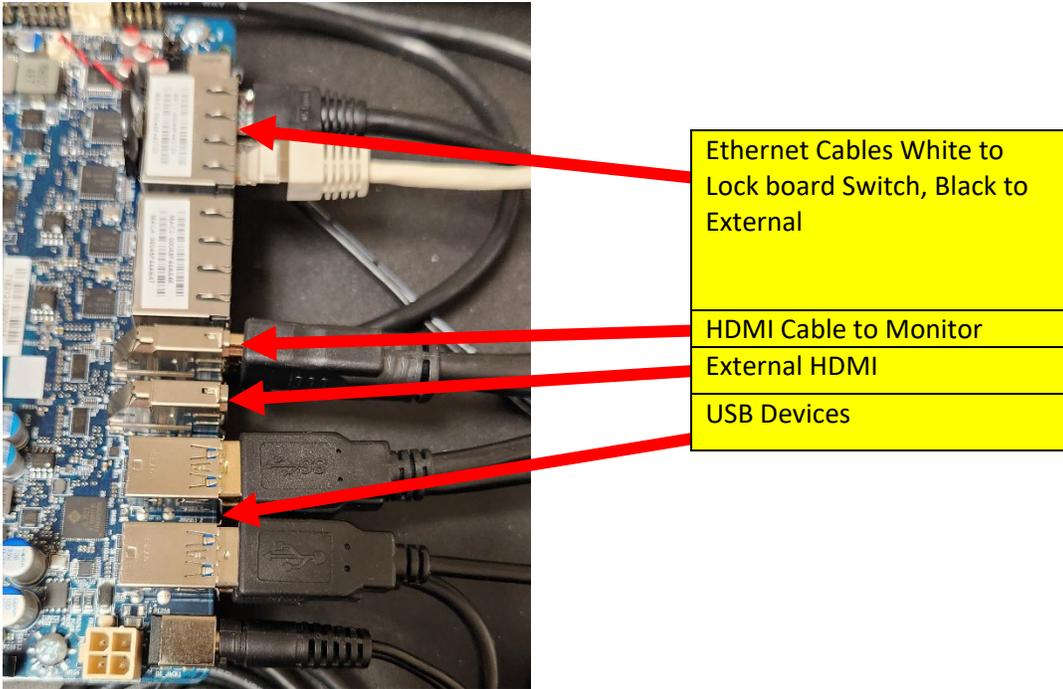
15. Replace the old COM cable with the new 3B COM cable.



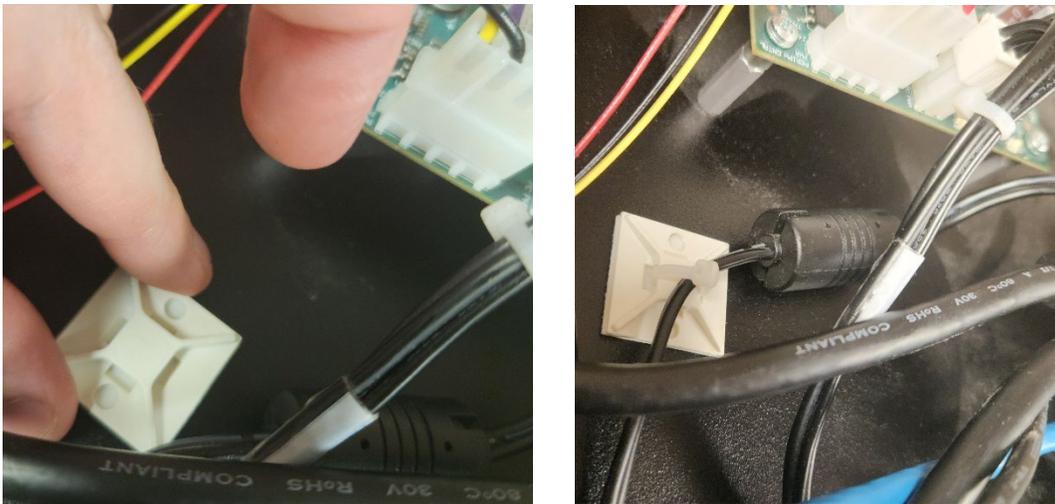
16. Attach the 90° USB extension to one of the USB extension cables and connect the 90° USB extension to the USB slot on the Gen4 PC.



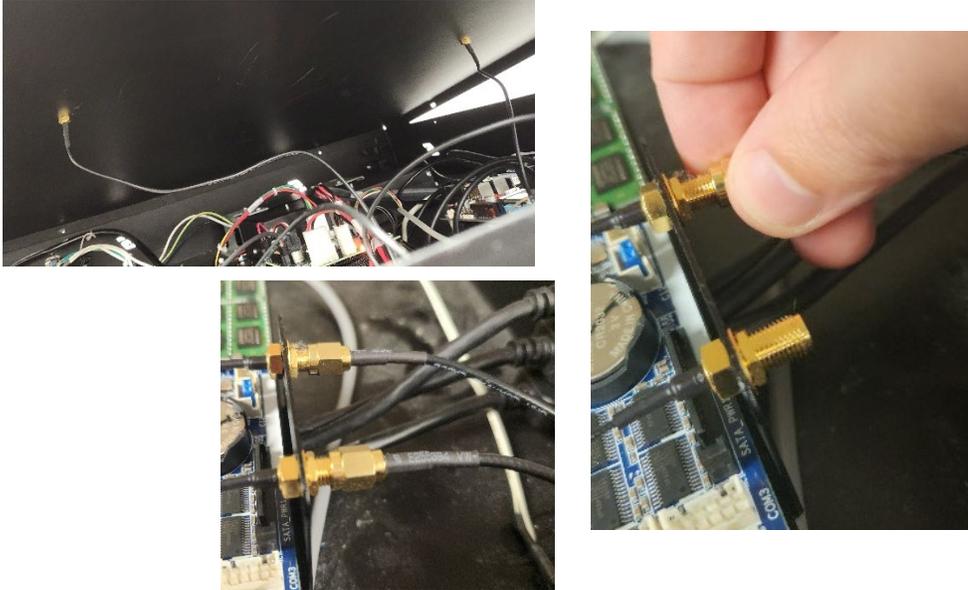
17. Connect all the rest of the cables to the Gen4 PC.



18. Secure the Barrel Power Connector to the chassis using the included Pad and Zip Ties.



19. Place the lid back on the chassis and connect the Wi-Fi Antenna Wires from the Lid to the Wi-Fi connectors on the L bracket.



20. Replace the old Wi-Fi antenna with the new ones included with the kit.



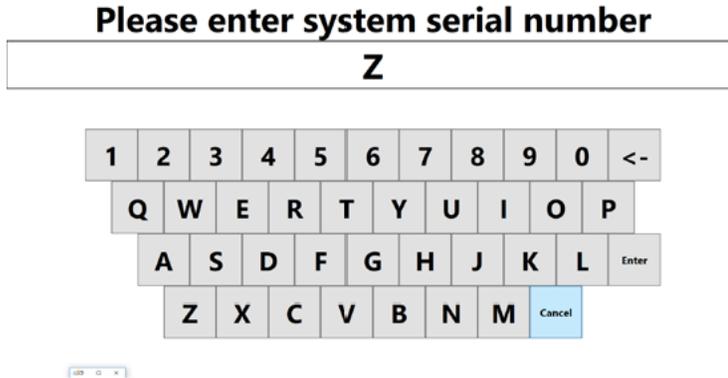
21. Connect the AC cable back to the system and power it on. Verify that everything is operating normally.
22. Secure the top with the eight screws.
23. Restore the backup data to the Locker. (Please Follow Restore Data Section in this guide.)

Device Data Restore Procedure

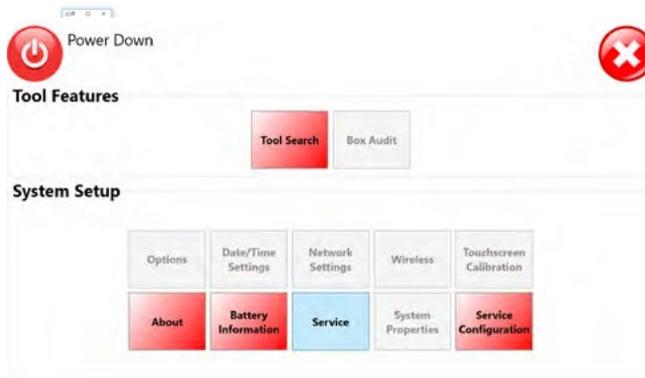
V8

Follow the instructions below to restore important ATC configuration data recovered from a replaced ATC hard drive. It is assumed that the new hard drive installation procedure was followed to install and configure the replacement hard drive.

1. Power on the system if it is not already. Press “Cancel”.



2. Click or Touch “Touch for Menu”. Click or Touch “Service”.

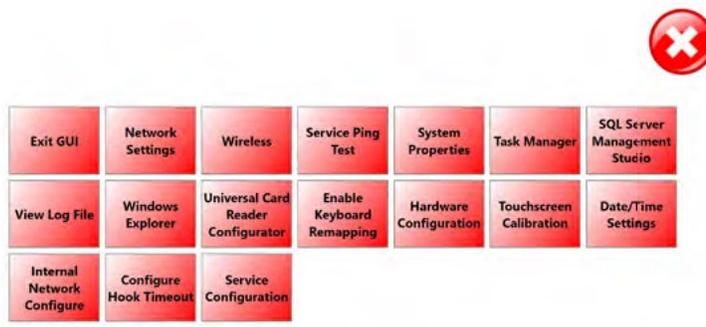


3. Enter Service Password “14231142”.

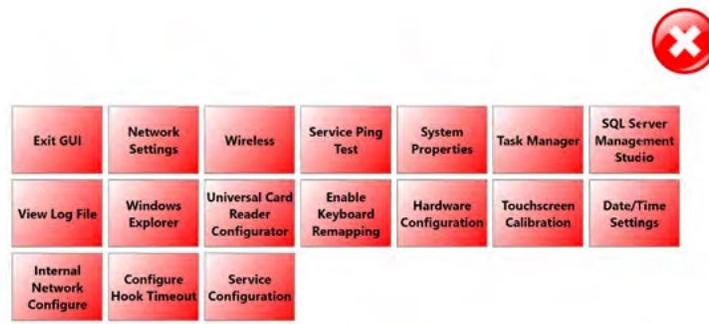
- Click on “Windows Explorer.”



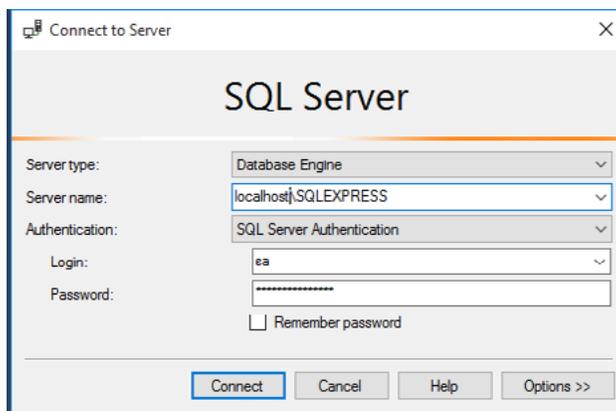
- Insert the USB storage device with the recovered data into the ATC toolbox
- Copy the recovered data to the same directories that they were copied from
 - Database backup (*.bak) => . E:\Microsoft SQL Server\MSSQL13.SQLEXPRESS\MSSQL\Backup\
 - Drawer Image Files (*.jpg) => E:\Images
 - Foam File (drawer.txt) => . E:\Box_Config\unaligned foam
 - Calibration Dewarp Files (E:\Bin\DewarpDataCamera#.dwp)
 - Employee Biometrics directory (E:\Bin\Employee Biometrics)
 - Employee Faces directory (E:\Bin\Faces)
- Close Windows Explorer
- From the ATC Service menu press the SQL Server Management Studio button.



- Press ALT, TAB and press the Exit GUI button on the ATC Service Menu.

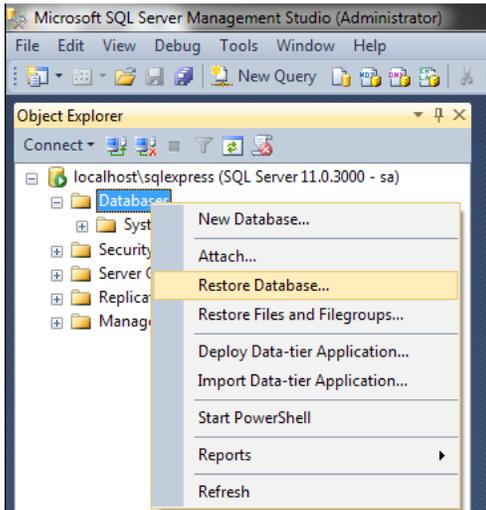


- Log into the localhost\SQLEXPRESS server using a username of “sa” and a password of “FOurth@ndInch3\$”.

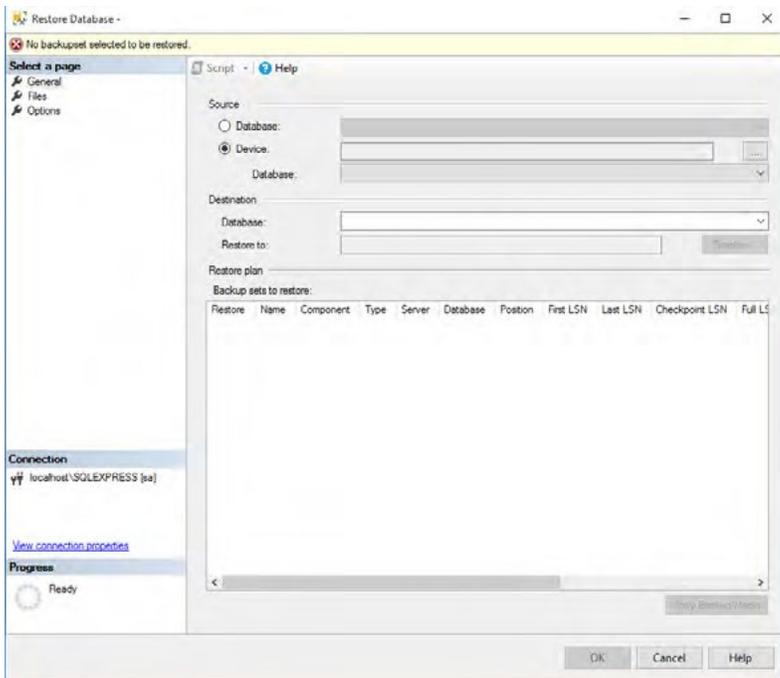


- Database => ATC-Box, Right Click and select Delete.
- Click OK to delete existing Database.

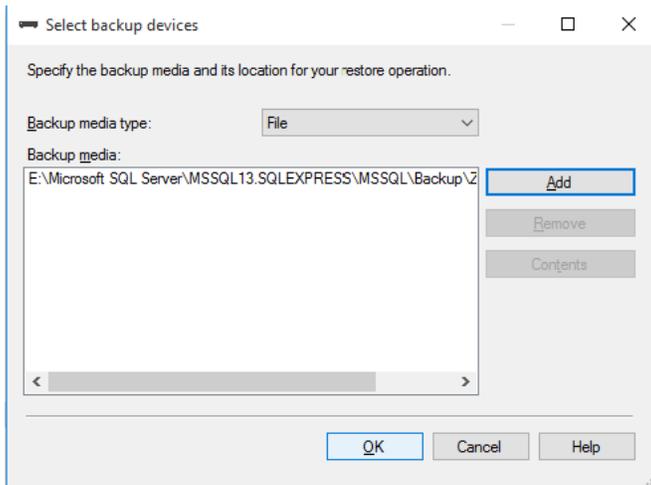
13. Right-click on Database and select Restore Database.



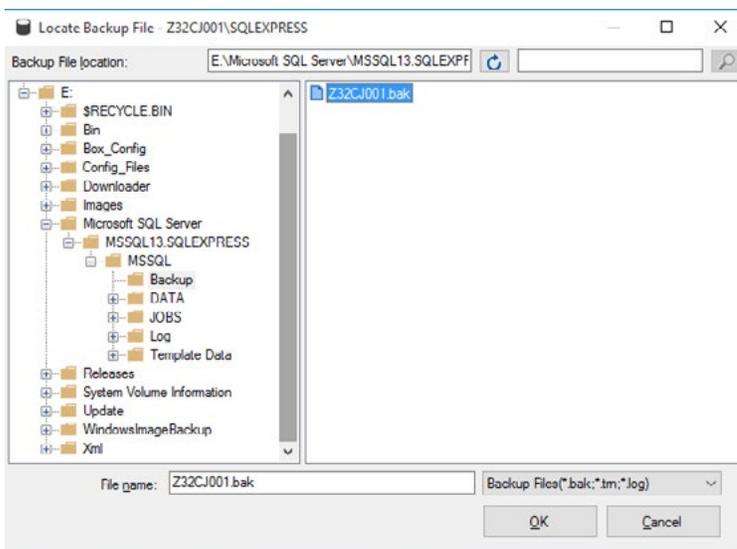
14. Restore Database - select Device and click the browse button "..."



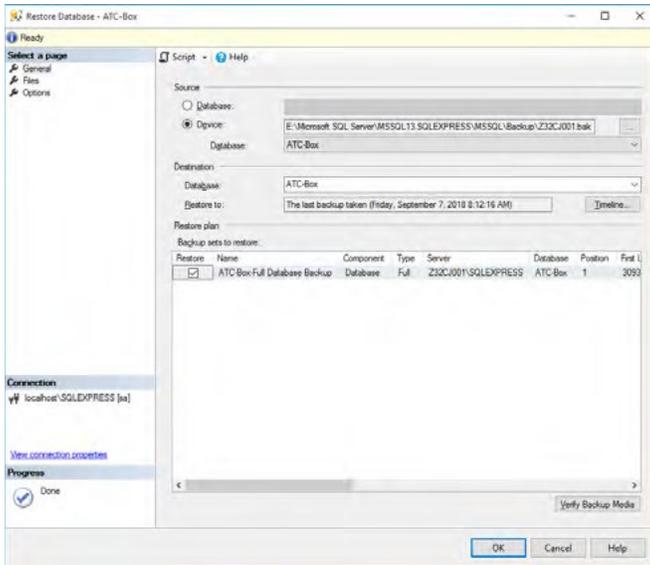
15. Click Add on the Select backup devices window



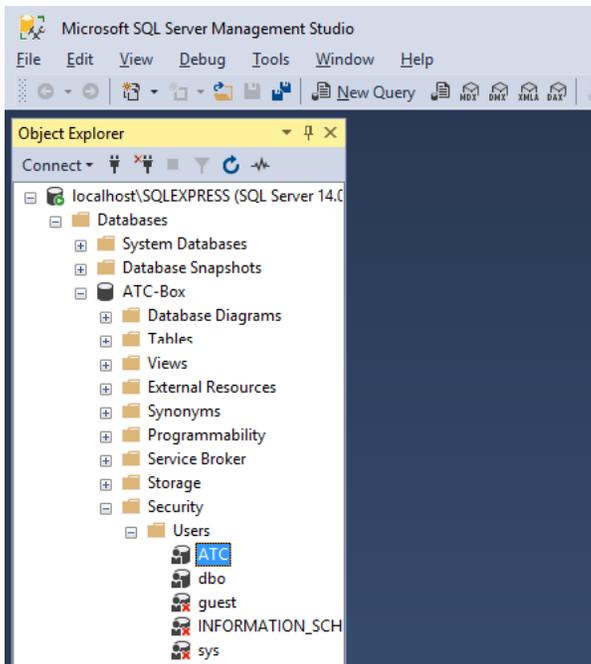
16. Locate Backup File window select the serial number of the box that you are restoring and press OK on this and the Select backup devices screen.



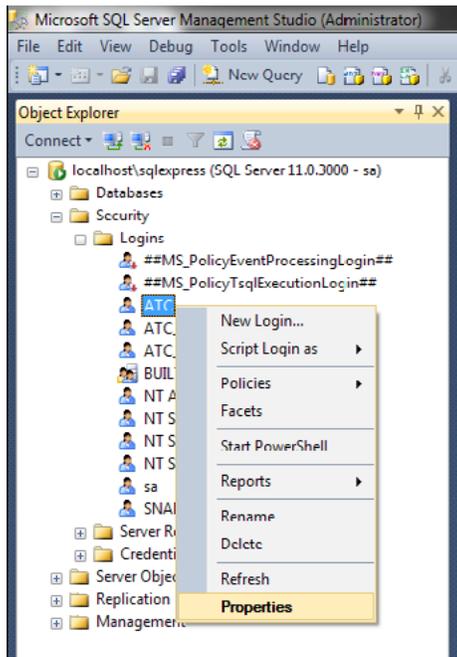
- Only one restore point should be available on the Restore Database window. If there are more than one option, select the newest. Make sure the Destination Database is set to ATC-Box. Select **Files** on the Left Side and **CHECK THE BOX** named **RELOCATE FILES**. Then click OK.



- The database has now been restored. Press OK.
- Databases => ATC-Box => Security => Users directory and right click ATC, delete the ATC user

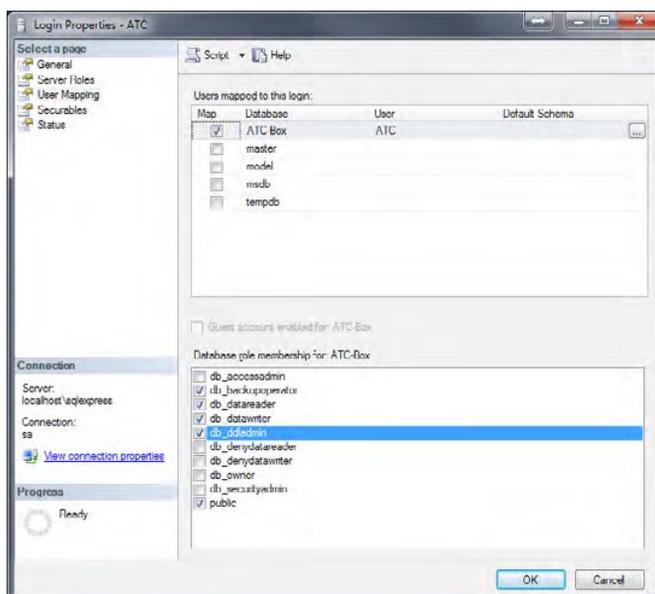


20. Open Security => Logins => ATC - Right click for Properties



21. Select User Mapping, check the following

- a. ATC-Box,
- b. db_backupoperator,
- c. db_datareader,
- d. db_datawriter,
- e. db_ddladmin,
- f. public.



22. Press the OK button to save the changes.
23. Close SQL Server Management Studio
24. Reboot the Device.

L5Connect (Formally True-Site)

If you have backed up your ATC Device to the service, follow these steps.

1. Boot up the Device.
2. When prompted Input the Serial Number found on the Back of the ATC Device Top (Should begin with the letter Z). Press the Green Checkmark.
3. Connect to the Network.
4. Join the L5 Connect Service.
5. You will be prompted to restore the backup, select YES.
6. After the backup is restored, the device will reboot and be ready to use.

If you manually backed up your ATC Device data, follow these steps.

1. Power on the system and connect a USB Keyboard, Mouse, and USB storage Device.
2. Close the SmartDevice GUI by pressing ALT-F4 on your keyboard.
3. When the Device Recovery Screen is displayed tap Service and input the code **14231142**.
4. Select Windows Explorer
5. Navigate to E:\V9\Tool Control System
6. Delete the SmartDevice folder that is already present.
7. Copy the old SmartDevice folder from the USB Storage Device to the Tool Control System folder on the Device.
8. Once copied, close the explorer window, and return to the main Device Recovery Screen.
9. Restart the Device.
10. Connect the Device to the Network.