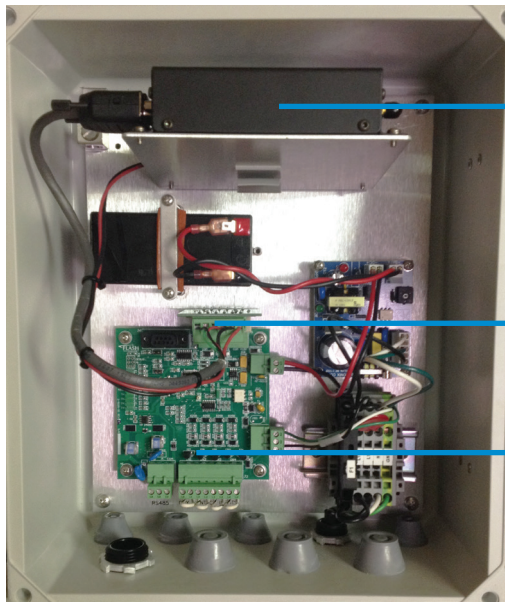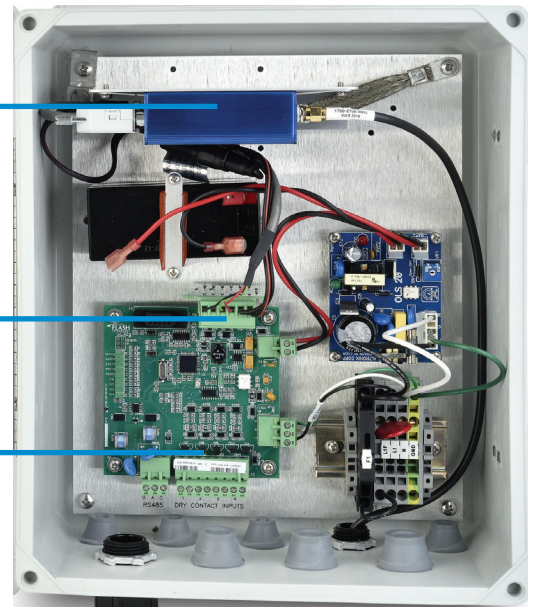# 3G to LTE Modem Upgrade for the FTW 174/175

Modem

Power Supply and Serial Cable connected to modem reset board

Modem Interface Board
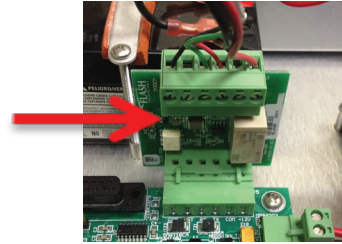
The following upgrade steps will apply for the Ctek 3G modem (shown on left) and Multitech 3G modem (shown on right).

Warning: Disconnect main power and backup battery before performing the following procedure.

Step 1: Remove Modem Reset Board and Connector

Remove the 6 pin green phoenix connector from the modem reset board. Then remove the modem reset board.
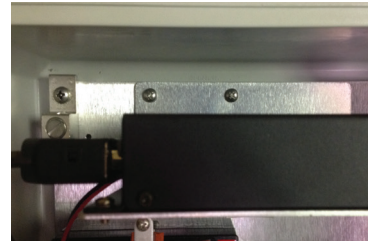

Step 2: Remove Antenna

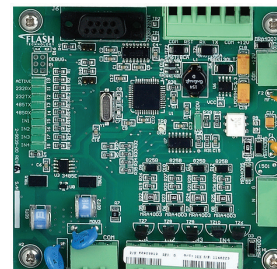Unscrew the antenna from the side of the modem.

Step 3: Remove Modem

Using a Phillips head screwdriver, remove the mounting screws that hold the modem bracket. Once removed pull out the modem and attached serial cord and power cord.
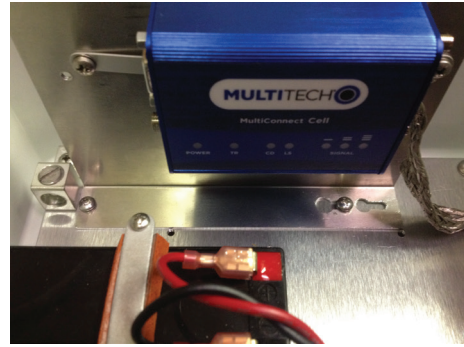

Step 4: Modem Interface Board

Remove the modem interface board (shown to the right) and install the new interface board (2903914).

FLASH TECHNOLOGY

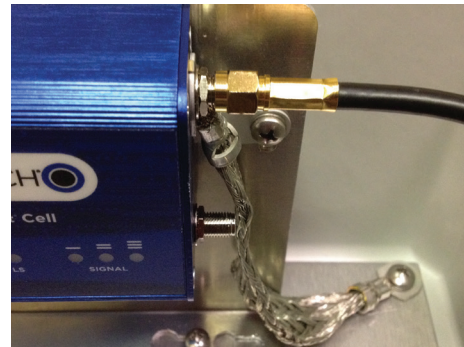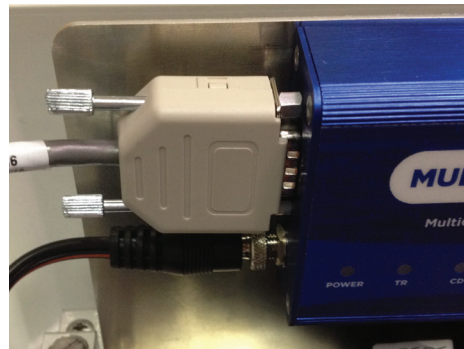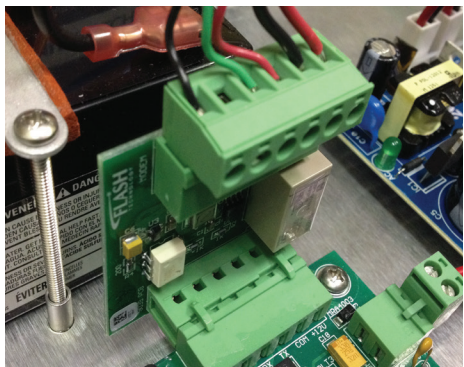|	
Step 5: Install Modem Using the same screws from the previous modem, start the screws in the corresponding holes that match the new mounting plate. Then slide the Multitech modem bracket into place with the antenna ports on the right side. Tighten the two screws into place.	
Step 6: Connect Ground Cable Important! Connect supplied grounding strap by removing the backplate screw in the top right corner. Using the same screw to connect the ground cable to the backplate. Do not over tighten.	
Step 7: Connect Antenna Connect the antenna to the side of the modem. The outermost connection point, labeled "Cell" will be where the antenna is connected. Make sure the antenna is tightened down hand tight, but do not use a wrench to do so.	
Step 8: Connect Power Supply & Serial Cable Using the supplied serial cable and power supply cable, insert each one into the ports on the left side of the modem. Secure each cord with the threaded couplers to ensure a good connection.	
Step 9: Connect Modem to the FTW Connect the serial cable and power supply pheonix connector to the same port the previous modem was connected to.	

Allow 5 minutes to pass after reconnecting power, then call the Flash NOC at 1-800-821-5825 to perform inspection.