

GEONET FIRMWARE UPGRADE PROCEDURE

To perform a firmware upgrade on a Node or Supervisor, complete the following:

- 1) Power off the unit by removing the D cells or disconnecting the external battery.
- 2) Ensure that the unit is completely discharged of electrical potential by pressing the status button repeatedly until no LED lights flash.
- 3) **For RS-232 Supervisors:** Connect the USB to RS-232 adapter cable to the COM-108 cable that came with the Supervisor. Continue to step 4.

For all other Nodes/Supervisors: Connect the upgrade cable to the “RS232 J1” connector on the bottom circuit board. (See Figure 1 for connector detail.)

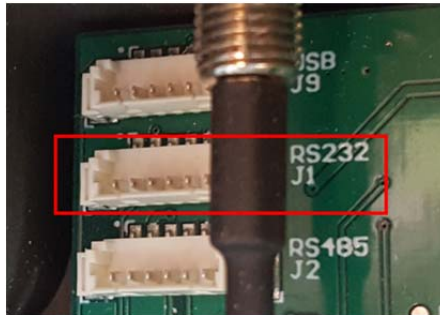


Figure 1 - J1 Connector Detail

Next connect the upgrade cable to the USB to RS-232 adapter cable, and then connect the USB to RS-232 cable to the computer. See Figure 2 for the completed set up.

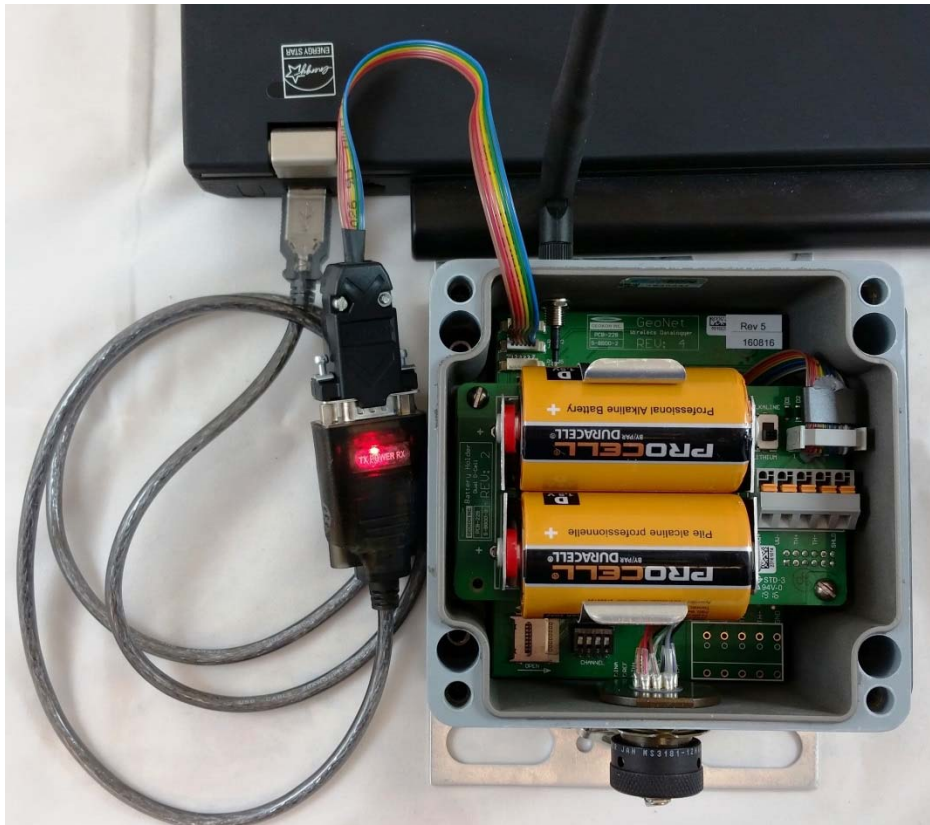


Figure 2 - Upgrade Cable Detail

- 4) Move all channel select dip switches to the “On” position (Figure 3).



Figure 3 - Channel Selector Switch

- 5) Reinstall the D cells into the unit or reconnect the external battery. The LED indicator on the right side of the unit will now flash green in one second intervals.
- 6) Run the GeoNet Firmware Updater program.
- 7) Click “Select File” and choose the latest firmware file. (Firmware files are named in the following format: “GeoNet_Firmware_YYMMDD.txt”, where YY is the last two digits of the year, MM is the month, and DD is the day of the month.)
- 8) Using the drop down box below the “Select File” button, select the correct serial port for the USB to RS-232 cable. To identify which serial port the unit is connected to, open Device Manager by completing the following:
- Go to “Control Panel” then “Device Manager”.
 - Click on the triangle to the left of “Ports (COM & LPT)” to expand the list.
 - Once the cable is plugged in the port will appear in the list.
- 9) Click “Program”. A progress bar will appear and the process will take one to two minutes (Figure 4).

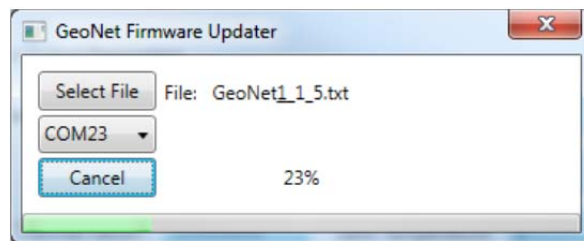


Figure 4 - Update Progress

- 10) Power off the unit by removing the D cells or disconnecting the external battery.
- 11) Ensure the unit is completely discharged of electrical potential by pressing the status button repeatedly until no LED lights flash.
- 12) Return the dip switches to the desired channel setting.
- 13) Power on the unit by reinstalling the D cells or reconnecting the external battery.

Troubleshooting

- ✓ Make sure the green light is flashing on and off in one second intervals.
- ✓ The multicolored upgrade ribbon cable must be used on all units with the exception of the RS-232 version supervisor.
- ✓ Updates should be done using the Geokon provided USB to RS232 adapter, part number 8001-7. Other adapters and native serial ports have been unreliable.
- ✓ Make sure the batteries are fresh.