

## Upgrading the DDF700x Boot Loader

May 26, 2016

This document applies to all DDF700x processors shipped before May 26, 2016.

When two or more DDF700x processors are connected to a local network and are powered on at exactly the same time there is a good possibility that the processors will hang up in the boot loader and not run the main direction finding firmware. A new boot loader (version 1.3) and MPT Flash (version 1.3) program are available that fixes this problem. If you are using or planning to use multiple DDF700x processors on the same network and you will be powering them up at the same time then you will need to use the MPT Flash program to reprogram the boot loader. If you are not using multiple DDF700x processors on the same network we do not recommend upgrading the firmware.

### Reprogramming the Boot Loader

1. Download DDF6280B\_Boot.srec from the web site.
2. Download the latest version of the MPT User Interface software from the web site.
3. Install the MPT User Interface software (this will install the new MPT Flash software)
4. Make sure the DDF700x has the default IP address of 10.0.0.100 and the default IP port of 2101.
5. Disconnect all cables from the DDF700x
6. Connect the DDF700x to the computer using a crossover cable
7. Make sure the network interface of the computer is set as detailed in the MPT Software User's Guide
8. Disable any firewalls in the computer that will block communications with the MPT Flash software. See the MPT Software User's Guide for information on how to configure the Windows Firewall
9. Power the processor
10. Wait about 10 seconds
11. Start the MPT Flash program
12. Wait for it to ask you to open a file (this may take several seconds)
13. Choose DDF6280B\_Boot.srec
14. After you choose the file wait for the flash to complete. **Do not under any circumstances power down the DF processor, disconnect any cables, or do anything to the computer that would disrupt this process. If you do any of these things you risk bricking the DF processor and it will need to be returned to the factory to be reprogrammed.**
15. Power off the processor
16. Connect all cables and power it back up and it should be ready to operate.

If you have any problems with this upgrade please contact the factory at 480-488-9755 x116 or by e-mail [dough@dopsys.com](mailto:dough@dopsys.com).