



Data Loading Procedures



Table of Contents

The Table of Contents also serves as a QUICK REFERENCE GUIDE or CHECK LIST for loading data into OpenAero.

1	Introduction	3
2	Equipment	3
3	Preparing the USB Thumb Drive	4
3.1	Determine that folders DatalinkLog and EngineLog have been cleared from the Thumb ..Drive 4	
4	Transferring Data From Aircraft MFD to Thumb Drive	5
4.1	Check that the Battery 1 and Battery 2 switches are OFF.....	5
4.2	Ensure that the ThumbDrive label matches the aircraft tail number and insert it intothe port on the right side of the MFD.	5
4.3	Turn the Battery 1 and Avionics power switches ON.	5
4.4	Press the PROCEED soft key when it appears on the MFD display.....	5
4.5	When the FlightMax proceeds to the “normal” startup screens, turn the Avionics and . Battery 1 power switches OFF and remove the ThumbDrive from the MFD.....	7
5	Transferring Data From the Thumb Drive to OpenAero	7
5.1	View the ThumbDrive contents.....	7
5.2	Compress and rename the "EngineLog" folder.	7
➤	Right click on the “EngineLog” folder, select “Send To” then “Compressed (zipped) ..Folder”. 7	
5.3	Open your internet web browser and log onto your OpenAero account.	9
5.4	Select "Data Upload" from the menu bar.	9
5.5	Enter a fuel price for the most recent flight, if desired.....	9
5.6	Select the aircraft tail number that matches the “.zip” file name on the ThumbDrive.	9
5.7	Use Browse to locate the “.zip” file containing the data and select the file.	9
5.8	Click "Upload Data".....	9



1 Introduction

This guide describes the procedures to retrieve flight data from the Avidyne FlightMax Multi - Functional Display (MFD) on either a Cirrus SR-20 or SR-22 aircraft. This document does assume the user is familiar with the Cirrus aircraft, standard computer usage knowledge, and is able to access the internet.

This document does not address use of data once it is loaded in OpenAero.

2 Equipment

- **Avidyne Version Release 6.0 and later: Use a USB Flash Drive.**



- **Avidyne Version Release: Use a 5.X IOMEGA Zip Drive.**



3 Preparing the USB Thumb Drive

WARNING

At this time, there is not a fail-safe to prevent loading data from Aircraft B into the database under Aircraft A. **Therefore**, it is critical to ensure that the data for each aircraft is loaded into the database and assigned to the associated aircraft.

3.1 Determine that folders DatalinkLog and EngineLog have been cleared from the Thumb Drive.

Figure 1 shows the contents of a ThumbDrive after data has been loaded to OpenAero. The DatalinkLog and EngineLog folders must be deleted before additional data can be retrieved from the aircraft.

NOTE

It is a good practice to delete these folders each time after loading the data to OpenAero in order to prepare the USB Thumb Drive for the next data retrieval.

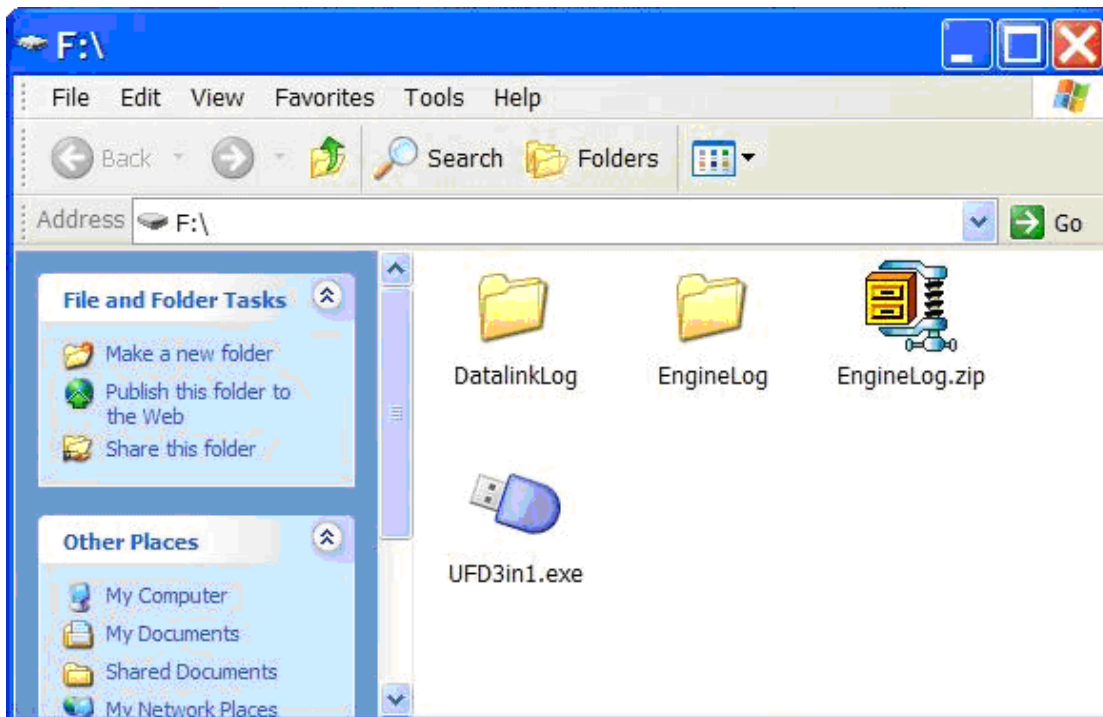


Figure 1. Thumb Drive Contents after data has been loaded to OpenAero

4 Transferring Data from Aircraft MFD to Thumb Drive

- 4.1 Check that the Battery 1 and Battery 2 switches are OFF.
- 4.2 Ensure that the ThumbDrive label matches the aircraft tail number and insert it into the port on the right side of the MFD.



Figure 2. USB Thumb Drive Inserted in Avidyne FlightMax.

- 4.3 Turn the Battery 1 and Avionics power switches ON.
- 4.4 Press the PROCEED soft key when it appears on the MFD display.

Figure 3 shows the FlightMax screen as it should appear with the ThumbDrive inserted. If the FlightMax proceeds instead to the normal initialization page, the data load is not functioning correctly. If this occurs, shut down the MFD, troubleshoot, and return to 3.1.

- **Shut Down:** Turn the Battery 1 and Avionics power switches OFF.
- **Troubleshoot:** Common causes for this error are that the DatalinkLog and EngineLog folders have not been cleared from the ThumbDrive or the ThumbDrive itself is defective.



Figure 3. FlightMax display after starting with ThumbDrive inserted.



Figure 4. FlightMax display showing data transfer progress status.



The progress bars, EngineDataLog and DatalinkLog will appear in succession (Figure 4). The MFD will automatically proceed to the normal start up screen after the progress bars have completed.

- 4.5 When the FlightMax proceeds to the “normal” startup screens, turn the Avionics and Battery 1 power switches OFF and remove the ThumbDrive from the MFD.**

5 Transferring Data from the Thumb Drive to OpenAero

5.1 View the ThumbDrive contents.

Insert the ThumbDrive into the USB port of a computer equipped internet access. The ThumbDrive should contain two folders, “DatalinkLog” and “EngineLog” as shown in **Figure 1**. There may be other files in this folder.

5.2 Compress and rename the "EngineLog" folder.

It is necessary to compress the “EngineLog” folder to a “.zip” file before the data is loaded into OpenAero. This reduces the size of the data files to be sent over the internet and therefore the necessary transfer time.

- **Right click on the “EngineLog” folder, select “Send To” then “Compressed (zipped) Folder”.**
- **Rename the “.zip” file to include the aircraft tail number.**

This reduces the chance of mistakenly loading data from one aircraft into the database of another.

Recommended Naming Convention:

Aircraft Tail Number_Date (Month Day Year) = **N12XX_021207**

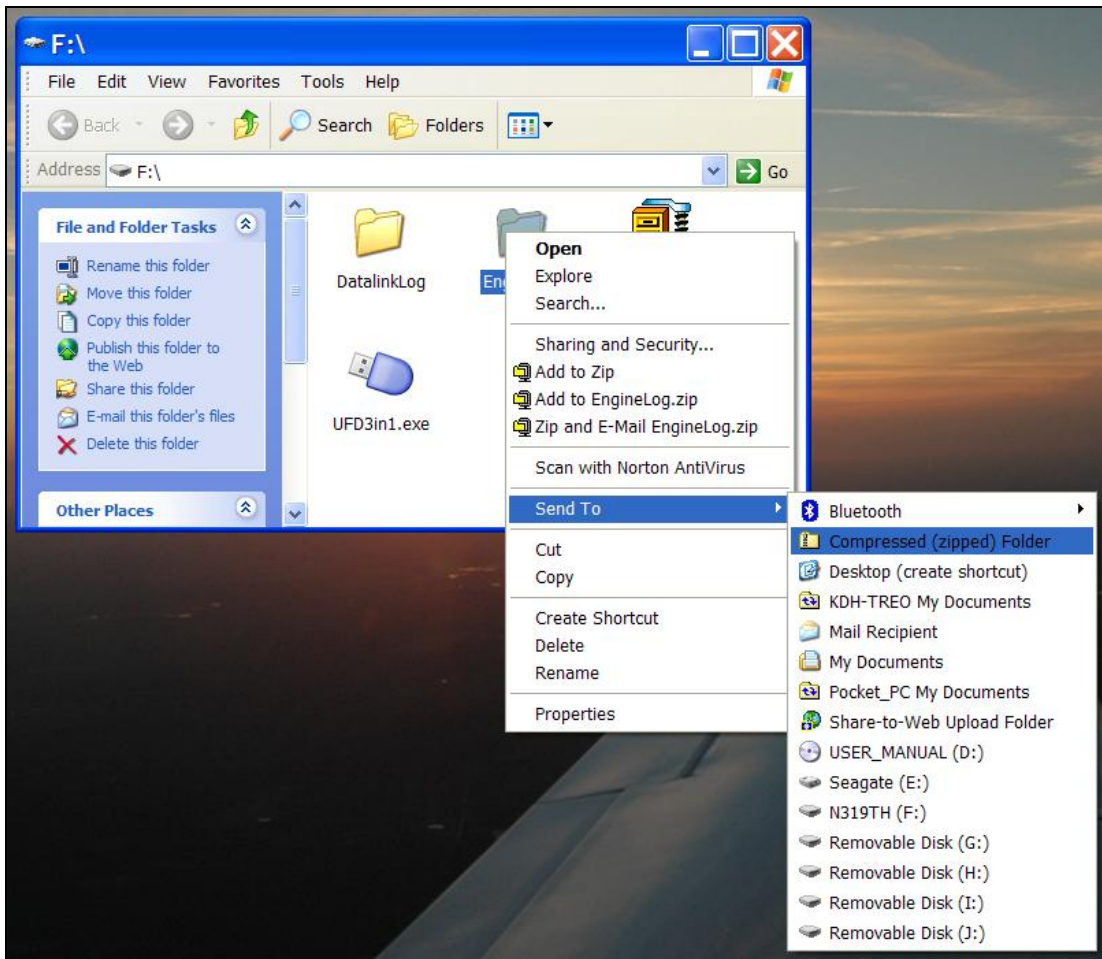


Figure 5. Compressing (zipping) the EngineLog folder.



- 5.3** Open your internet web browser and log onto your OpenAero account.
- 5.4** Select "Data Upload" from the menu bar.
- 5.5** Enter a fuel price for the most recent flight, if desired.
- 5.6** Select the aircraft tail number that matches the “.zip” file name on the ThumbDrive.
- 5.7** Use the Browse function to locate the “.zip” file containing the data and select the file.
- 5.8** Click "Upload Data".

NOTE

After the upload has completed, we suggest deleting the “DatalinkLog” and EngineLog” folders to prepare for the next upload.