

## FSB-33 (V1) Firmware Upgrade Service Bulletin

### Firmware Upgrade

<b>To:</b>	Flightcell End Users, OEMs, Distributors, Resellers, Service Centres, and Installers
<b>Effective Date:</b>	17 December 2018
<b>Status:</b>	Optional
<b>Affected Products:</b>	Flightcell DZMx, all product variants running platform 3 (v3) firmware
<b>Affected Serial Numbers:</b>	Not applicable

### Purpose

This bulletin provides information on Flightcell DZMx firmware release version 3.1.0.

### Reason

This firmware provides new features and enhancements to existing features and bug fixes.

### Prerequisites

Prior to upgrade the DZMx must be operating firmware version 3.0.0.

### Change Summary

1. Auto-Connect for Bluetooth now supported.
2. Iridium PTT Enhancements:
  - a. Option for PTT to start as the default application
  - b. Iridium modem starts in PTT mode without a SIM
  - c. Caller location provided
  - d. The ability to export caller location

- e. Aircraft location tracking over PTT
3. Three Internal timers added:
  - a. Total Time Airframe Hours (TTAF and also known as Hobbs Meter). Once set it is non-resettable
  - b. Daily Flight Timer (DFT)
  - c. Trip timer
4. Advanced Cellular band select: can now select an individual GSM/WCDMA band using the advanced band select.
5. External DZMx control: XUI interface now supported over ARINC-429 as well as RS485.
6. Helicopter rotor brake and winch reporting to tracking provider for New Zealand National Ambulance Sector Office (NASO).
7. Added external modem configuration to UI menu option (previously was only available in DZMx Connect only).
8. Added support for second Ethernet Interface. The DZMx must have an optional second Ethernet expansion card fitted.
9. Added support for failover routing where more than one data connection is available.
10. External DZMx control: API now supports answering incoming calls.
11. Added barometer support for the Flight Data Recorder.

## Warranty Information

The firmware is available to all Flightcell DZMx users free of charge even if the unit is out of warranty. For product registration and warranty information, please visit [www.flightcell.com/warranty](http://www.flightcell.com/warranty).

## Labour Requirement

The duration of the upgrade will vary and is dependent on the previous firmware version installed. It will take between 5 to 40 minutes to complete. Power must be maintained to the DZMx at all times.

## Equipment Required

*Using DZMx USB port upgrade method:*

- USB port connection to the DZMx; and a
- USB memory stick

*Using DZMx Connect upgrade method:*

- A working Ethernet port on a PC or laptop; and a
- Data connection via Ethernet or WiFi to the DZMx

*Using DZMx Connect app upgrade method:*

- An Apple or Android smart device; and a
- A DZMx cellular data connection with internet access; and the
- DZMx Connect app

## Modification Procedure

Before commencing the upgrade:

1. Check the current DZMx firmware by going to **MENU>Diagnostics Menu>About DZMx**. This should be firmware platform 3.x.x. If the current firmware version is 1.x.x or 2.x.x, please contact the Flightcell technical support team - phone: +64 3 535 8651 or email: [tech@flightcell.com](mailto:tech@flightcell.com).
2. Download the firmware directly from: <http://www.flightcell.com/support/firmware> and save it to a USB memory stick or a laptop (if using DZMx Connect upgrade method).
3. Ensure there is enough battery power to run the DZMx for at least 1 hour (DZMx draws approximately 1A at 28VDC).

To perform the upgrade:

### ***Using the DZMx USB port:***

1. Insert the USB memory stick into the DZMx USB port.
2. Go to **MENU>Hardware Config** and press **ENTER**.
3. If necessary, enable the DZMx extended menus using **Installer Menu Enable**, enter the installer password, then press **ENTER**.
4. Scroll down to **Firmware Upgrade** and press **ENTER**.
5. If an error message appears try removing the USB stick and inserting it again.
6. When a user notification message appears, press **ENTER**.
7. The upgrade will commence. Follow the on-screen prompts.

### ***Using DZMx Connect:***

1. Connect a PC or laptop to the DZMx Ethernet port.
2. Open an internet browser and in the address/URL/location bar, enter the IP address: **192.168.4.1**.
3. Login and authenticate as an installer using the installer password.
4. In the **About** section, select **Upgrade**.
5. Browse to select the firmware file.
6. Select **Upload** and wait for the files to be transferred to the DZMx. A percentage completed bar displays upload progress.
7. Once the upload has been completed the DZMx will automatically start the upgrade. A percentage completed bar displays upgrade progress.
8. You will be redirected back to the DZMx Connect **Discovery** screen. Watch the DZMx display and wait for the '**Restarting to finish upgrade!**' message to disappear and for the DZMx to reboot.
9. When the DZMx has finished rebooting you can log back in to DZMx Connect.

### ***Using DZMx Connect app (DZMx cellular data connection with Internet access and DZMx WiFi required)***

1. Configure the WiFi on your smart device and connect to the DZMx.
2. Open the DZMx Connect app and select the DZMx to upgrade.
3. Login and authenticate as an installer using the installer password.
4. In the **About** section, select **Upgrade**.

5. The DZMx will automatically connect to a remote server and download the latest firmware, provided there is a DZMx cellular data connection. A percentage completed bar displays download progress.
6. The firmware will then be automatically uploaded to the DZMx and the DZMx will be upgraded. Percentage completed bars will display upload and upgrade progress.
7. You will be redirected back to the DZMx Connect **Discovery** screen. Watch the DZMx display and wait for the '**Restarting to finish upgrade!**' message to disappear and for the DZMx to reboot.
8. When the DZMx has finished rebooting you can log back in to DZMx Connect (Note: you may need to re-connect WiFi on the smart device).