

FSB-27 (V1) Firmware Upgrade Service Bulletin

Firmware Upgrade

To:	End Users, OEMs, Distributors, Resellers, Service Centres, and Installers
Effective Date:	08 May 2018
Status:	Recommended
Affected Products:	Flightcell DZMx, all product variants (DZP_04-xxx)
Affected Serial Numbers:	All

Purpose

This bulletin provides information on Flightcell DZMx firmware release version 2.18.1.

Reason

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

Prerequisites

Prior to upgrade, the DZMx must be operating firmware version 2.x.x. If a DZMx is running version 1.x.x firmware, please contact Flightcell support:

Phone: +64 3 545 8651

Email: tech@flightcell.com

Change Summary

1. Added support for Open Virtual Private Network (Open VPN).
2. Added Flight Data Recorder (FDR) functionality. This configuration option saves GPS location, acceleration, and g-force data to SD card, at 1 second intervals.
3. Cellular IP tracking auto-switching has been enhanced.
4. In 'Static IP Address' mode, the user can now configure the unit for a specific IP address from the keypad.
5. Implemented geofencing cost-saving enhancement for units fitted with cellular modems.
6. Added support for XUI remote head applications (e.g. mission computer, glass cockpit) using the external RS485 interface.
7. Firefighting mode enhancement: The user can now switch between two delivery systems (e.g. bucket and tank) without the need for manual reconfiguration.
8. The interface to the AKV ETM1000 has been enhanced to report real-time exceedances.
9. Fixed an issue where the internal communication between modules could intermittently cause GPS and modem failure. The workaround was a power off/on reset.
10. Fixed an issue where the Iridium Push-To-Talk operation disabled Cellular IP Tracking.
11. Improved the usability of the DZMx Manager's phone book manager, canned message manager and ON/OFF and YES/NO toggle switches.

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.

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 Manager upgrade method:

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

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 2.x.x. If the current firmware version is 1.x.x, please contact the Flightcell technical support team - phone: +64 3 535 8651 or email: 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 Manager 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. The upgrade will commence.

Using DZMx Manager:

1. Connect a 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. Authenticate as an installer using the installer password.
4. In the **Settings Panel** select **Upgrade System Firmware**.
5. Browse to select the firmware file.
6. Select **Start Upgrade**.
7. The upgrade will commence.