

FSB-28 (V1) Firmware Upgrade Service Bulletin

Firmware Upgrade

To:	Flightcell End Users, OEMs, Distributors, Resellers, Service Centres, and Installers
Effective Date:	27 July 2018
Status:	Optional
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 2.19.0.

Reason

This firmware provides new features and improved usability. There are no major bug fixes and upgrading to this version is optional.

Prerequisites

1. **IMPORTANT:** Check with your tracking provider to ensure they support DZMx protocol suite 4 before upgrading to this version of firmware. If it is not supported DZMx tracking will stop working.
2. 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. The tracking message protocol has been updated to protocol suite 4. Before upgrading to this firmware version, check with your tracking provider to ensure they support protocol suite 4.
2. Tracking position accuracy has been improved and there is a new option to use either PDOP or HDOP for GPS dilution of precision (positional accuracy).
3. Dual cell modem configuration has been improved. Previously a global configuration affected both modems. Now, data and SBD settings can be configured individually for each modem.

4. Added 'PTT transmitting' to the DZMx external output configuration options so that a visual or audible indicator can be configured to indicate Iridium Push-To-Talk (PTT) transmission.
5. Cell modem transmission and reception can be automatically disabled at take-off, if required. The operator can still manually enable and disable the modem from the keypad.
6. The emergency reporting interval has been reduced from 30 seconds to 15 seconds.
7. The RS485 XUI (eXternal User Interface) now supports text messaging, the ability to turn modem data on and off, and UI popups.

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.