# DZMx PLUS

# SIMPLIFY THE UPGRADE OF YOUR LEGACY SATELLITE EQUIPMENT



*"Flightcell DZMx Plus has been designed for the avionics bay of an aircraft.*

Transceiver unit

Remote Head unit

**Flightcell have simplified the upgrade of legacy satellite equipment. Operators can now upgrade to the latest satellite and cellular hybrid technology, with minimal cost and minimal downtime.**

## STRAIGHT LRU SWAP-OUT MAKES FOR EASY INSTALLATION

Unlike DZMx that was designed for the cockpit, the new Flightcell DZMx Plus mounts on the existing tray in the avionics bay of an aircraft. It is a straight LRU swap-out for ageing tray mounted satcom tracking systems.

There is very little installation required; in most cases a cellular blade antenna will be added to take advantage of the DZMx Plus' cellular voice and data capabilities.

## DESIGNED TO ALLOW FOR FUTURE HARDWARE EXPANSION

Flightcell DZMx Plus has more space available than the smaller DZMx product, providing scope for the future expansion of hardware and additional capabilities.

DZMx Plus is controlled from the cockpit or cabin by the DZMx Remote Head Unit, and has all the features of DZMx, including the same functions, menu structure and user interface.

# DZMx PLUS

## TRANSCEIVER UNIT

### ELECTRICAL

| | | |
|---|---|---|
| Input Voltage | | 12-32VDC |
| Power Supply Current | | ~1A@28V |
| Built in UPS | | Up to 60 seconds |
| ICS to DZM Audio | Input Levels | 20mVrms to 1.15Vrms, adjustable |
| | | 775mVrms to 1.15Vrms nominal |
| | Input Impedance | 600Ω |
| Microphone bias voltage | | 12V via 2.2kΩ |
| DZM to ICS Audio | Output levels | Up to 5Vrms, adjustable |
| | | 775mVrms nominal |
| | Output Impedance | 150Ω |
| GPS | Antenna bias voltage | 5V |
| | Antenna current | Up to 100mA |
| | Sensitivity | -162dBm (with Flightcell Antenna) |
| | Time to first fix | 26s |

### USER INTERFACE

| | |
|---|---|
| Power switch | Momentary action switch PWR on/off with backlight |
| LEDs | Transceiver Status Indicator x3 |

### DIMENSIONS

| | | | |
|---|---|---|---|
| Weight | 1.1 Kg | 2.43lbs | (depending on configuration) |
| L x W x H | 240 x 59 x 188 mm | 9.5 x 2.3 x 7.4" | |

### CONNECTORS

| | |
|---|---|
| Mounting fasteners: | Quick release tray, 4-#38 holes, |
| | any configuration |
| Main connectors: | 1x D-SUB 62 HD male |
| | 1x Ethernet |
| | 1x USB |
| Antenna connectors: | Transceivers 3x TNC |
| | GPS: BNC |
| | WiFi: SMA |
| | Bluetooth: SMA |

### DATA INTERFACES

| | |
|---|---|
| RS-232 | 3-wire serial port |
| RS-485/422 | 4-wire serial port |
| USB | USB port |
| 10/100 ethernet | Ethernet port |
| General purpose inputs | Up to x12 |
| General purpose outputs | 2x Outputs |
| ARINC 429 (optional) | 2x Inputs, 1x Output |

### DO-160G CERTIFICATION

Env.Cat[(A2)(B2)(F1)]BAB[UG]HXXXXXZZA[AC][SS]MXXXXXXXXAC

### ENVIRONMENTAL

| | |
|---|---|
| Operating temperature: | -40$^0$C to 55$^0$C |

## REMOTE HEAD UNIT

### MATERIAL

Enclosure machined from aluminium 6061

### ELECTRICAL

| | |
|---|---|
| Input Voltage | 12-32VDC |
| Power Supply Current | ~200mA@28V |
| Backlighting Control | User-configurable fixed level or controlled from an external |
| | lighting dimmer. 0-28VDC or user-configurable response |
| Backlighting Colour | Green 540nm. Designed for NVIS B compliance |

### MOUNTING FASTENERS

DZUS or M5

### DIMENSIONS

| | | |
|---|---|---|
| Weight | 200 grams | 8.9 oz |
| Width | 146 mm | 5.75" |
| Height | 57 mm | 2.25" |
| Depth | 23 mm | 0.9" |

### CONNECTOR

| | |
|---|---|
| Civilian - D15 male | (mating connector is M24308/2-2F) |

### ENVIRONMENTAL

| | |
|---|---|
| DO160G sections 4-8, 15-21 & 25 | |
| Operating temperature | -40$^0$C to 70$^0$C |
| Enclosure | IP54 |

ISO 9001:2015 CERTIFIED COMPANY

*Flightcell* ®
ALWAYS CONNECTED