FLIGHTCELL DZMX PLUS

SATELLITE AND CELLULAR HYBRID AIRCRAFT TRACKING AND COMMUNICATIONS SOLUTION

The Flightcell DZMx Plus has been designed for the avionics bay of an aircraft, and simplifies the replacement 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 Remote Head Unit, and will have all the features of DZMx, including the same functions, menu structure and user interface.

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
› **ICS to DZM Audio Input Impedance:** 600Ω
› **Microphone bias voltage:** 12V via 2.2kΩ
› **DZM to ICS Audio Output levels:**
    Up to 5Vrms, adjustable
    775mVrms nominal
› **DZM to ICS Audio Output Impedance:** 150Ω
› **GPS Antenna bias voltage:** 5V
› **GPS Antenna current:** Up to 100mA
› **GPS Sensitivity:** -162dBm (with Flightcell Antenna)
› **GPS 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 63 x 154 mm / 9.5 x 2.5 x 6.1"

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]MXXXXXXXXXAC

ENVIRONMENTAL
› **Operating temperature:** -400C to 550C

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 Color:** 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:** -400°C to 700°C
› **Enclosure:** IP54

ANY OPERATION
ANY ASSET
ANYWHERE

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DZMX-PLUS-BROCHURE-EN-V1.0