

Flightcell

DZMx PLUS



Designed for the avionics bay, Flightcell DZMxPLUS simplifies the upgrade of your 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 Control Head Unit, and has all the features of DZMx, including the same functions, menu structure and user interface.

Transceiver Unit specifications

ELECTRICAL			CONNECTORS	
Input voltage	12 – 32VDC		Mounting fasteners	Quick release tray
Power supply current	~1A@28V			4-#38 holes (any config.)
Built in UPS	Up to 60 seconds		Main connectors	1x D-SUB 62 HD male
ICS to DZM audio				1x Ethernet
Input levels	20mVrms to 1.15Vrms	adjustable		1x USB
	775mVrms to 1.15Vrms	nominal	Antenna connectors	Transceivers 3x TNC
	Input impedance	600Ω		GPS: BNC
Microphone bias voltage	12V via 2.2kΩ			WiFi: SMA
DZM to ICS audio				Bluetooth: SMA
Output levels	Up to 5Vrms	adjustable	DATA INTERFACES	
	775mVrms	nominal	RS-232	3-wire serial port
	Output impedance	150Ω	RS-485/422	4-wire serial port
GPS	Antenna bias voltage	5V	USB	USB port
	Antenna current	Up to 100mA	10/100 ethernet	Ethernet port
(with Flightcell antenna)	Sensitivity	-162dBm	General purpose inputs	Up to x12
	Time to first fix	26s	General purpose outputs	2x outputs
			ARINC 429 (optional)	2x inputs, 1x output
USER INTERFACE			DIMENSIONS	
Power switch	Momentary action switch		L x W x H	240 x 59 x 188 mm
	Power on/off with backlight			9.5 x 2.3 x 7.4"
LEDs	Transceiver status indicator x3		Weight (depending on configuration)	
			1.1 Kg	2.43lbs
DO-160G CERTIFICATION				
Env.Cat[(A2)(B2)(F1)]BAB[UG]HXXXXXZZA[AC][SS]MXXXXXXXAC				

ENVIRONMENTAL		
Operating temperature:	-40°C to 55°C	-40°F to 131°F

DZMx Control Head Unit specifications

ELECTRICAL		DIMENSIONS	
Input voltage	12-32VDC	Weight	200 grams 8.9 oz
Power supply current	~200mA@28V	Width	146 mm 5.75"
Backlighting control	User-configurable fixed level or controlled from an external lighting dimmer.	Height	57 mm 2.25"
	0-28VDC or user-configurable response	Depth	23 mm 0.9"
Backlighting Colour	Green 540nm. Designed for NVIS B compliance	MATERIAL	
		Enclosure machined from aluminium 6061	
CONNECTORS		ENVIRONMENTAL	
Civilian - D15 male	(mating connector is M24308/2-2F)	DO160G sections 4-8, 15-21 & 25	
MOUNTING FASTENERS		Operating temperature	-40°C to 70°C
DZUS or M5		Enclosure	IP54

Note: Product specifications are correct as at January 2022. Specifications are subject to change without notice.

Phone: +64 3 545 8651
 Email: info@flightcell.com
 www.flightcell.com

