NETTED IRIDIUM (PTT) + PHONE + DATA + TRACKING - **ALL IN ONE BOX**

Field-proven C2 SATCOM

Flightcell DZMx Military Solution

DZMx ☑ RUGGED ☑ RELIABLE ☑ EASY

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

CERTIFIED ISO 9001:2015 COMPANY

Flightcell®
ALWAYS CONNECTED.

For Robust and Reliable Command and Control Communications

Military operations with Flightcell DZMx

The DZMx delivers where and when it's needed. Built to MILSPEC and DO160G, the unit is fully sealed and rated to IP65.

The familiar keypad and menu makes the DZMx extremely easy to use, while the tactile keys are suitable for use with gloves. The display is fully dimmable and is compatible with NVIS-A and NVIS-B.

DZMx comes with internal or external Iridium satellite transceiver options.

Field Proven

DZM is trusted by the United States, South Korean, Chilean, Turkish and Colombian Air Forces and the United States Army, Marines and Department of State.

Optional Iridium Push-To-Talk (PTT)

The Iridium PTT option offers global group satellite communications with AES-256 encryption. The Iridium satellite constellation is low-earth orbit providing quality, low-latency voice reception.

With the push of a button, the Flightcell DZMx switches between PTT and phone mode in less than a second.

Optional Cellular Capability

An optional cellular transceiver complements the Iridium satellite transceiver and provides cellular voice and data communication. The benefits of cellular include broadband data and low cost communications.

DMZx provides:

- Reliable, direct voice to and from any location
- High quality voice
- Reliable data connection
- Optional Iridium Push-To-Talk group comms
- One-touch 'Under Fire' and 'Emergency' alerts
- Night Vision NVIS-B (NVIS-A option)

Rugged Satphone Cradles

An optional Flightcell Cradle and its docked Iridium satellite phone can be integrated with the DZMx and the intercom system. The ability to take the satphone off the aircraft provides additional operational flexibility and safety.

The cradle and satphone perform the Iridium transceiver function for the DZMx and the Iridium transceiver is not installed in the DZMx in this configuration.

The solid alloy body is built to withstand the extreme demands of military use, and it's been designed to meet the strict certification requirements of the US Department of Defence for aviation use.

Supported Iridum Satphones

Supported phones include the 9505A, 9555 and Extreme.

DZMx SPECIFICATIONS

ELECTRICAL		
Input Voltage		12 – 32VDC
Power Supply Current		~1A @ 28VDC
ICS to DZM Audio	Input Levels	20mVrms to 1.15Vrms, adjustable
		775mVRMS 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
Backlighting Control		AC/DC, 0 - 32V
		User calibrated High/Low set-points
Backlight colour	Green 520nm.	Designed for NVIS compliance.
GPS	Antenna bias voltage	5V
	Antenna current	Up to 100mA
	Sensitivity	-162dBm (with Flightcell Antenna)
	Time to first fix	26s

MATERIALS				
Aluminium 6061				
CONNECTORS				
Mounting fasteners:	DZUS or M5			
Main connector:	1 x D25 male plus 1 x D25 female **or**			
	1 x D38999 male (military versions)			
Antenna connectors:	Transceivers TNC			
	GPS: BNC			
DIMENSIONS				
	DZUS mount		**GA mount**	
Faceplate width:	146mm	5.75"	158mm	6.22"
Body width:	126mm	4.96"	126mm	4.96"
Faceplate height:	57mm	2.24"	60mm	2.36"
Body height:	54mm	2.13"	54mm	2.13"
Depth (front to rear faces):	110mm	4.33"	110mm	4.33"

WEIGHT	
	580-720g (1.21-1.59 lbs) depending on configuration
DATA INTERFACES	
Interface	**Description**
RS232	3-wire serial port
RS-485/422	4-wire serial port
USB-via D25 or D38999	DZMx is USB Host
10/100 ethernet	Ethernet port
General purpose inputs	5 digital or analogue
General purpose outputs	2 outputs
DO-160G CERTIFICATION	
Env.Cat [(A2)(B2)(F1)]BAB[UG]HXXXXXZZA[AC][SS]MXXXXXXXAC	
ENVIRONMENTAL	
Built to:	IP54 (Civ), IP65 (Mil)
Operating temperature:	-40°C to 70°C