

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

Field-proven C2 SATCOM

Flightcell DZMx Military Solution



DZMx



RUGGED



RELIABLE



EASY

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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 Iridium Satphones

Supported phones include the 9505A, 9555 and Extreme.



DZMx SPECIFICATIONS

ELECTRICAL		MATERIALS		WEIGHT	
Input Voltage	12 – 32VDC	Aluminium 6061		580-720g (1.21-1.59 lbs) depending on configuration	
Power Supply Current	~1A @ 28VDC	CONNECTORS		DATA INTERFACES	
ICS to DZM Audio	Input Levels 20mVrms to 1.15Vrms, adjustable	Mounting fasteners:	DZUS or M5	Interface	
	Input impedance 600Ω	Main connector:	1 x D25 male plus 1 x D25 female or 1 x D38999 male (military versions)	RS232	3-wire serial port
Microphone bias voltage	12V via 2.2kΩ	Antenna connectors:	Transceivers TNC	RS-485/422	4-wire serial port
DZM to ICS Audio	Output levels Up to 5Vrms, adjustable		GPS: BNC	USB-via D25 or D38999	DZMx is USB Host
	775mVRMS nominal	DIMENSIONS		10/100 ethernet	Ethernet port
	Output impedance 150Ω			General purpose inputs	5 digital or analogue
Backlighting Control	AC/DC, 0 - 32V			General purpose outputs	2 outputs
	User calibrated High/Low set-points			DO-160G CERTIFICATION	
Backlight colour	Green 520nm. Designed for NVIS compliance.			Env.Cat [(A2)(B2)(F1)]BAB[UG]HXXXXZZA[AC][SS]MXXXXXXAC	
GPS	Antenna bias voltage 5V			ENVIRONMENTAL	
	Antenna current Up to 100mA			Built to:	
	Sensitivity -162dBm (with Flightcell Antenna)			IP54 (Civ), IP65 (Mil)	
	Time to first fix 26s			Operating temperature:	
				-40°C to 70°C	