

# Maintain vital contact between Aircrew and the emergency department.

## Air Medical operations with DZMx

Flightcell's DZMx Air Medical Solution allows aircrew and the Emergency Department (ED) to maintain constant contact.



Medics can retrieve patient history en-route and transmit patient vital signs to the ED whilst inbound.

The DZMx Remote Head installed in the cabin gives medics full control of the DZMx.

Optional WiFi provides internet access for laptops, tablets and smart phones.

### Low Cost Tracking

The aircraft position is reported every 15 seconds when in cellular range using Flightcell's world-first Cellular IP Tracking technology. This is cheaper than cellular SMS and significantly cheaper than satellite tracking.

When out of cellular range, tracking automatically switches to Iridium satellite and the reverse applies when a cellular network is available. When tracking via satellite the frequency of position points automatically decreases to keep costs to a minimum.

### Iridium Push-To-Talk (PTT)

The Iridium PTT option offers global 'walkie talkie' style communications with encryption between aircraft, the ED and individual ground units. Physical separation is no longer an issue.

### Machine to Machine (M2M) Connectivity

The DZMx is a data connection point for patient monitoring systems, connecting both portable and installed equipment. There are multiple data connection options to satisfy the most demanding installation requirements. A wide range of other on-board systems and sensors can also be monitored.

## DMZx provides:

▶ Voice + Data + Tracking

▶ Dual network cellular & Iridium satellite

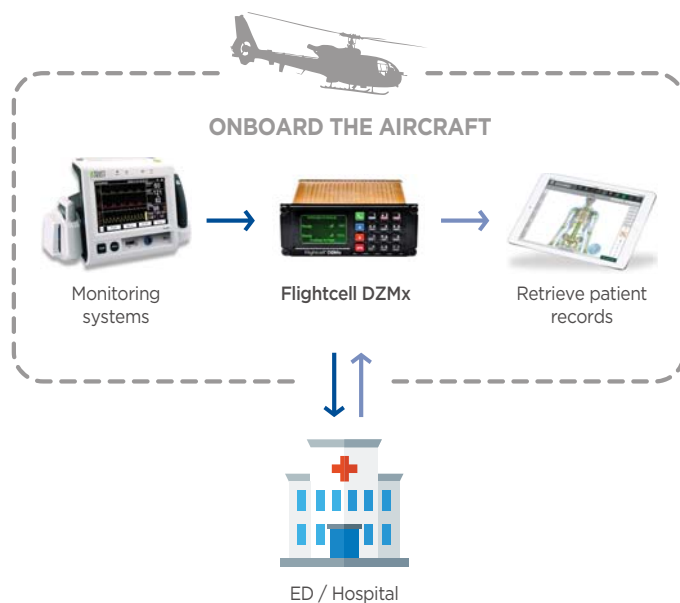
▶ High speed cellular broadband data

▶ Low cost tracking

▶ Optional WiFi

▶ Optional Iridium Push-To-Talk (PTT)

▶ Optional Virtual Private Network (VPN)



## DZMx SPECIFICATIONS

ELECTRICAL		MATERIALS		WEIGHT	
Input Voltage	12 – 32VDC	Aluminium 6061		580-720g (1.21-1.59 lbs)	
Power Supply Current	~1A @ 28VDC			depending on configuration	
ICS to DZM Audio	Input Levels	CONNECTORS		DATA INTERFACES	
	775mVRMS nominal	Mounting fasteners:	DZUS or M5	Interface	Description
	Input impedance	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		GPS: BNC	USB-via D25 or D38999	DZMx is USB Host
	775mVRMS nominal	DIMENSIONS		10/100 ethernet	Ethernet port
	Output impedance			General purpose inputs	5 (3 x digital, 2 x 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			ENVIRONMENTAL	
	5V			Built to:	IP54 (Civ), IP65 (Mil)
	Antenna current			Operating temperature:	-40°C to 70°C
	Up to 100mA				
	Sensitivity				
	-162dBm (with Flightcell Antenna)				
	Time to first fix				
	26s				

# ALWAYS CONNECTED TO THE EMERGENCY DEPARTMENT

## Fightcell DZMx Air Medical Solution

# DZMx

DZMx provides constant contact between aircrew and the ED for improved patient care.

Flightcell's Air Medical solution provides for the collection of data from multiple connected monitoring systems and automatic transmission to base, along with low cost position tracking and other flight data recording.

- Transmit patient vital signs and data from the aircraft to the ED
- Retrieve patient records in-flight
- Real-time location information reported
- Unlocked broadband data
- Dual voice capability
- Second keypad exclusively for medical crew

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# Flightcell®

ALWAYS CONNECTED.