

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 ensures there is constant communication between the aircrew and your Emergency Department (ED) using satellite and cellular broadband networks.

- Transmit 12-Lead ECG data to the ED
- Retrieve patient records in-flight
- Real-time location information reported
- Access weather and landing zone information
- Dual voice capability
- Second keypad exclusively for medical crew

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Flightcell®

ALWAYS CONNECTED.

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 12-Lead ECG data to the ED whilst inbound.

The DZMx Remote Head installed in the cabin gives medics full control of the DZMx, and an additional voice channel for confidential communication

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)

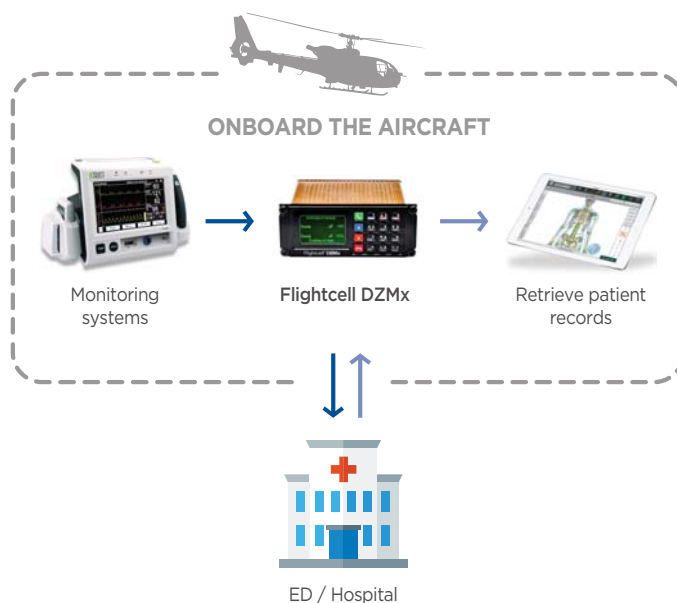
The Iridium PTT option offers global 'walkie talkie' style communications with encryption between aircraft, the ED and individual ground units. Physical separation is no longer an issue.

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	
	20mVrms to 1.15Vrms, adjustable	Mounting fasteners:	DZUS or M5	Interface	Description
	775mVRMS nominal	Main connector:	1 x D25 male plus 1 x D25 female or 1 x D38999 male (military versions)	RS232	3-wire serial port
	Input impedance	Antenna connectors:	Transceivers TNC	RS-485/422	4-wire serial port
	600Ω	GPS:	BNC	USB-via D25 or D38999	DZMx is USB Host
Microphone bias voltage	12V via 2.2kΩ	DIMENSIONS		10/100 ethernet	Ethernet port
DZM to ICS Audio	Output levels		DZUS mount	General purpose inputs	5 digital or analogue
	Up to 5Vrms, adjustable		GA mount	General purpose outputs	2 outputs
	775mVRMS nominal		Faceplate width:	DO-160G CERTIFICATION	
	Output impedance		146mm 5.75"	Env.Cat [(A2)(B2)(F1)]BAB[UG]HXXXXZA[AC][SS]MXXXXXXAC	
	150Ω		126mm 4.96"	ENVIRONMENTAL	
Backlighting Control	AC/DC, 0 - 32V		60mm 2.36"	Built to:	IP54 (Civ), IP65 (Mil)
	User calibrated High/Low set-points		54mm 2.13"	Operating temperature:	-40°C to 70°C
Backlight colour	Green 520nm.		110mm 4.33"		
GPS	Antenna bias voltage				
	5V				
	Antenna current				
	Up to 100mA				
	Sensitivity				
	-162dBm (with Flightcell Antenna)				
	Time to first fix				
	26s				