

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.

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)

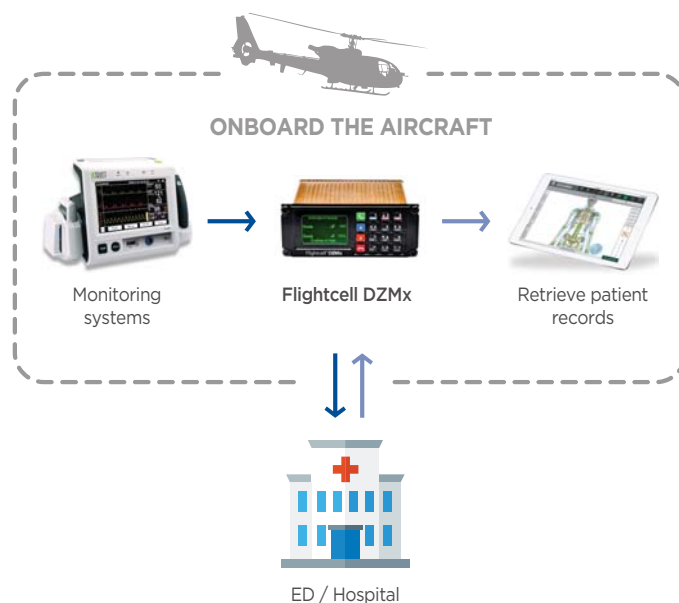
The Iridium PTT option offers global 'walkie talkie' style communications with encryption between aircraft, the ED and individual ground units. Physical separation is no longer an issue.

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)	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	Description
	Input impedance 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
	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
	Output impedance 775mVRMS nominal	DIMENSIONS		10/100 ethernet	Ethernet port
	Backlighting Control AC/DC, 0 - 32V			General purpose inputs	5 digital or analogue
	Backlight colour Green 520nm.			General purpose outputs	2 outputs
GPS	Antenna bias voltage 5V			DO-160G CERTIFICATION	
	Antenna current Up to 100mA			Env.Cat [(A2)(B2)(F1)]BAB[UG]HXXXXZZA[AC][SS]MXXXXXXAC	
	Sensitivity -162dBm (with Flightcell Antenna)			ENVIRONMENTAL	
	Time to first fix 26s			Built to:	IP54 (Civ), IP65 (Mil)
				Operating temperature:	-40°C to 70°C