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

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

CERTIFIED 9001:2015 ISO 9001:2015 COMPANY

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 Flightcells' 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)

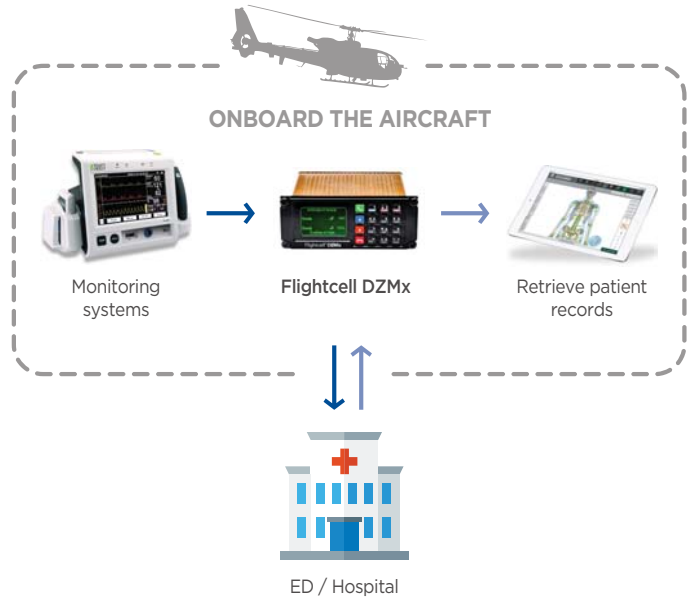
The Iridium PTT option offers global 'walkie talkie' style communications with encryption between aircraft, the ED and individual ground units. Physical separation is no longer an issue.

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		
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