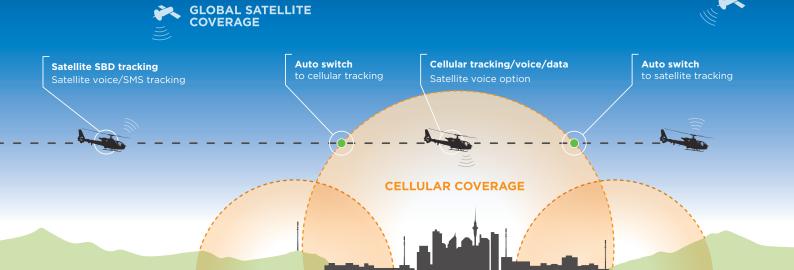
SATELLITE & CELLULAR VOICE, DATA & HYBRID TRACKING ALL-IN-ONE







DUAL NETWORK AIRCRAFT TRACKING



Flightcell DZMx pioneered dual network, uninterrupted GPS tracking via satellite and cellular networks, to significantly reduce the cost of tracking.

- Fully unlocked system you choose your tracking and airtime provider.
- Uninterrupted tracking even when you're on a call.
- **Hybrid tracking via satellite and cellular networks** uses cheapest option when in range, providing more GPS positions for even less cost.
- Event driven-tracking user configurable.
- Uses Truepath[™] provides more precise flight path mapping.



Flightcell DZMx mapping partners:

TracPlus	Guardian Mobility	Blue Sky Network	Satcom Direct	SkyNet	Flight Explorer
SkyTrac	Global Nav	Spidertracks	Outerlink	GeoDecisions	



DZMx integrates:

IRIDIUM PHONE IN FLIGHTCELL CRADLE

Use Iridium handset for aircraft satcoms **or** standalone use away from the aircraft.
Cradle versions for

- Iridium 9575 (Extreme)
- Iridium 9555
- Iridium 9505/A



DZMx REMOTE HEAD

Enables **full** control of DZMx from up to two additional crew positions.

ETHERNET/USB HUB

Hub provides connection options for

- Tablets, PCs, other on-board systems
- WiFi / Ethernet router
- USB for firmware upgrades and data downloads.



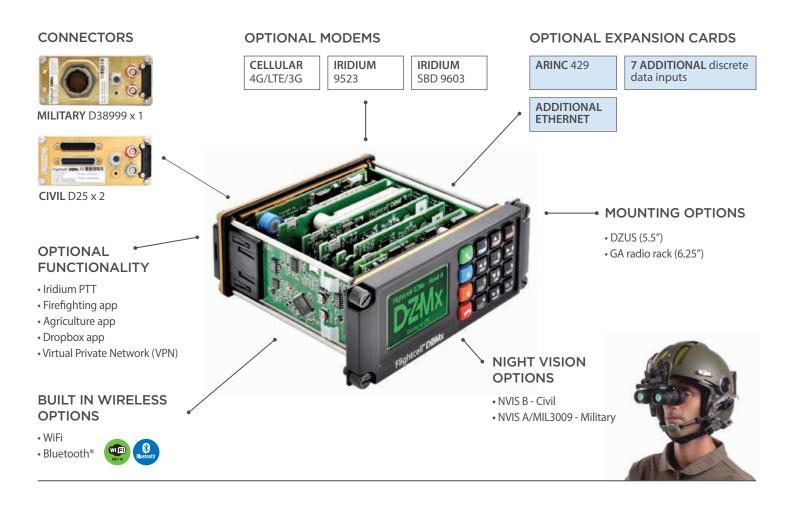
DZMx SPECIFICATIONS

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	600Ω
Backlighting Control		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

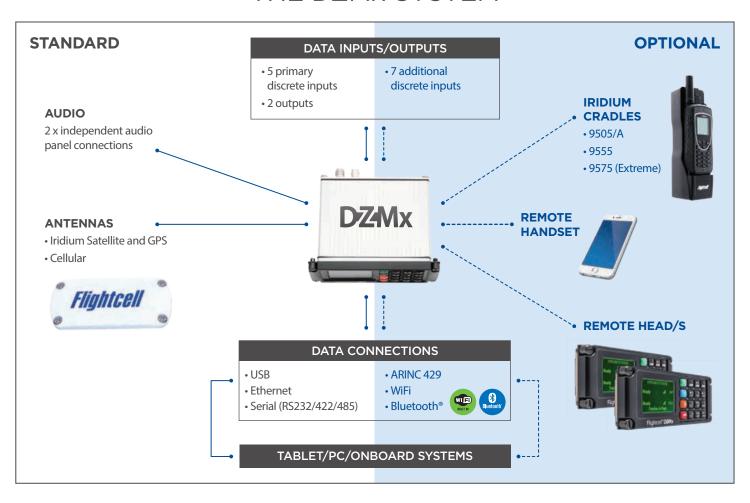
MATERIALS				
Aluminium 6061				
CONNECTORS				
Mounting fasteners:	DZUS or M5			
Main connector:	1 x D25 male plus 1 x D25 female or			
	1 x D3899	9 male (mi	litary version	s)
Antenna connectors:	Transceive	ers TNC		
	GPS: BNC			
DIMENSIONS				
	DZUS mo	unt	GA moun	t
Faceplate width:	146mm	5.75"	158mm	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"
Body height: Depth (front to rear faces):	54mm 110mm	2.13" 4.33"	54mm 110mm	2.13" 4.33"
	•		•	

WEIGHT	
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 (3 x digital, 2 x analogue)
General purpose outputs	2 outputs
DO-160G CERTIFICATION	
Env.Cat [(A2)(B2)(F1)]BAB[U	G]HXXXXXZZA[AC][SS]MXXXXXXXAC
ENVIRONMENTAL	
Built to:	IP54 (Civ), IP65 (Mil)
Operating temperature:	-40°C to 70°C

FLEXIBLE CONFIGURATION OPTIONS



THE DZMx SYSTEM



DZMx FEATURES

DZMx is the world's only all-in-one satellite and cellular voice, data and tracking system.

All electronics are installed in one compact, panel

• 2.18" (55mm) high

• 4.95" (125mm) wide

Smallest, lightest,

smartest

• 4.72" (120mm) deep • 1.4lbs (650g)!

DO160G certified (Sections 4-8,15-21,25) Super strong machined alloy faceplate and extruded alloy housing.

The world's toughest

Built to MILSPEC and

satcom system

in the event of network failures

functionality for up to two additional work stations on the aircraft

Multi-channel options

- Single or dual Iridium channels (internal)
- Iridium and cellular (internal)
- Iridium phone in a Flightcell cradle (external).

Environmentally sealed for long life and low maintenance

Designed to withstand temperature extremes, humidity, water, sand and dust.

• IP54 (Civ) • IP65 (Mil)

Built in WiFi and Bluetooth®

- · WiFi hotspot and hub
- Internal antenna
- Connect to smart devices
- Stream audio to ICS.

Night vision goggle compliant

Backlit keypad and LCD display are NVIS compliant as standard.

- · NVIS A (Mil)
- NVIS B (Civil)

Accessible SIM cards

Easy access to SIM card slots to change your satellite or cellular network providers.

Optional remote control head

Multiple transceiver

modular design

options, configurable

1-2 internal transceivers

offering expansion and

dual mode redundancy

Allows full operational

Easy to use and configure

Easy to follow menu and configuration options. Configure via front panel keypad, connected laptop or app via WiFi.

GLOBAL VOICE

DZMx is the world's only all-in-one satellite and cellular phone system, providing crystal clear voice communications via Iridium satellite and cellular networks, so you're always connected.

Satellite and cellular voice calls

Full global coverage via Iridium satellite and low cost cellular option when in range.

Crystal clear audio

DZMx is a full digital audio system (input/ output) for optimal sound quality and clarity when you need it most.

Audio optimisation

Fully adjustable audio input and output levels to match all audio systems.

Standard phone keypad layout

DZMx is the only satcom system that uses the standard and familiar phone keypad layout no training required.

Iridium Push-To-Talk

Global satellite PTT communications between multiple aircraft and ground units.

Built in contact list with 3 speed dial keys

All your contacts are accessible from the built-in contact list. Easily manage contacts using DZMx web app.

Use smart phones

Connect smart phones to the ICS for hands-free calling and audio streaming.

Aircraft audio connections

DZMx provides two independent connections to the aircraft audio system.

Connectivity

- Serial RS232/432/485
- Ethernet
- · USB
- Optional ARINC429
- WiFi
- · Bluetooth®



GLOBAL DATA

DZMx connects your aircraft to the world via the Iridium satellite narrowband and cellular broadband networks.

Messaging

Freehand text messaging using connected device via Iridium (SBD and SMS), cellular (SMS) and internet

Pre-configured, quick messaging

Send pre-configured messages from DZMx or smart device to:

- Any cell or satphone
- · Your mapping system.



DZMx (civil) rear view showing multiple connection options.

Specialised data applications

Transmit mission-specific data for improved aircraft management and more accurate billing.

- Fire fighting payload and drop-zone data.
- Crop dusting flight records, loads and drop data
- Airline operations
- Medical transmit 12-Lead ECG data

Multiple data inputs

5 standard switched inputs (digital or analogue).

Optional expansion card provides 7 more inputs. Two digital outputs.

Broadband

Full email and internet via 3G/4G/LTE cellular data (when available).



DZMx (civil) side view.

GPS TRACKING

DZMx offers dual network, uninterrupted GPS tracking via both satellite and cellular networks to significantly reduce your tracking costs.

Cellular IP Tracking

DZMx utilises cellular technology that offers low cost position points at 15-second intervals.

Truepath[™] for more precise tracking

DZMx bundles multiple GPS positions during each transmission to provide more precise mapping of the aircraft track.

Unlocked - choose your mapping service

DZMx's unlocked data feed is supported by multiple tracking providers - you're not locked into any airtime or tracking provider.

Lower tracking costs

Using cellular networks can significantly reduce the cost of tracking. Expect to get more for less.

Continuous tracking

Simultaneous voice and tracking via a single channel. Send position reports even while on a phone call.

Event driven tracking

- Distress
- Engine
- Load
- Take off / land
- Hover
- Point of interest
- · 0001

One key sends request to USFS and NAFC AFF your tracking provider for compliant tracking. Automated Rescue Monitoring. Get notified if tracking is unexpectedly interrupted (where supplied).

AFF compliant



Mark point of interest

Convenient one key activation to manually mark your GPS position. Send optional pre-configured message with GPS position.

D74MX