THE WORLD'S SMALLEST, LIGHTEST & SMARTEST SATCOM SYSTEM*





*IT'S ALSO THE TOUGHEST!

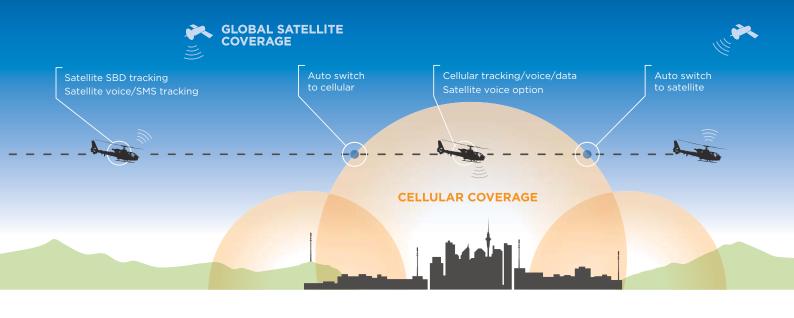
DZMx is built to MILSPEC and DO160G, and designed to withstand extremes of temperature, vibration and impact. Housed in a super strong extruded alloy case, with minimal wiring, it's fast and simple to install. Incredibly, DZMx weighs only 1.4lbs (650g)!

DZMX IS THE **ONLY** ALL-IN-ONE **IRIDIUM** & **CELLULAR** SOLUTION FOR **VOICE**, **DATA** & **GPS TRACKING**.

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DUAL NETWORK AIRCRAFT TRACKING



DZMx is the only system that offers dual network, uninterrupted GPS tracking via satellite and cellular networks, significantly reducing your costs.

- Fully unlocked data feed you choose your tracking and airtime provider
- Uninterrupted tracking, even when on a call
- Tracking via satellite and cellular networks DZMx uses lower cost option when in range
- Event driven-tracking (user configurable)
- Uses Truepath™ for more precise flight path mapping.



Tracking Providers:

TracPlus	Guardian Mobility	Flight Explorer	Global Nav	Outerlink	SkyNet	SkyTrac
Spidertracks	Troo	Blue Sky	Heligràfics	Tesacom	Satcom Direct	



DZMx integrates:

IRIDIUM PHONE IN FLIGHTCELL CRADLE

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

Provides connection options for:

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



DZMx SPECIFICATIONS

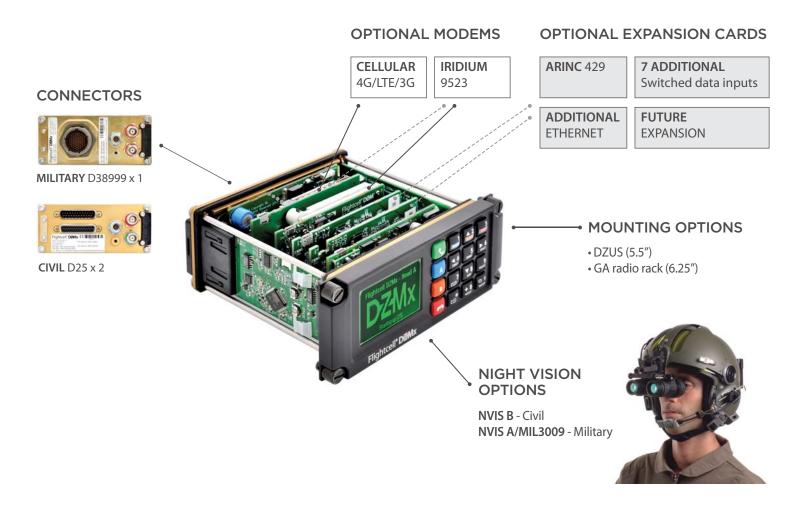
ELECTRICAL		
Input Voltage		12 - 32VDC
Power Supply Current		~1A @ 28VDC
ICS to DZM Audio	Input Levels	20mVrms to 1.15Vrms, adjustable
		775mVRMS nominal
	Input impedance	600Ω
Microphone bias voltage		12V via 2.2kΩ
DZM to ICS Audio	Output levels	Up to 5Vrms, adjustable
		775mVRMS nominal
	Output impedance	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 r	nale plus	1 x D25 fe	male or
	1 x D389	99 male	(military ve	rsions)
Antenna connectors:	Transceiv	ers TNC		
	GPS: BN0	C		
DIMENSIONS	Available	in DZUS	or GA mou	nt.
	DZUS m	ount	GA mou	nt
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"

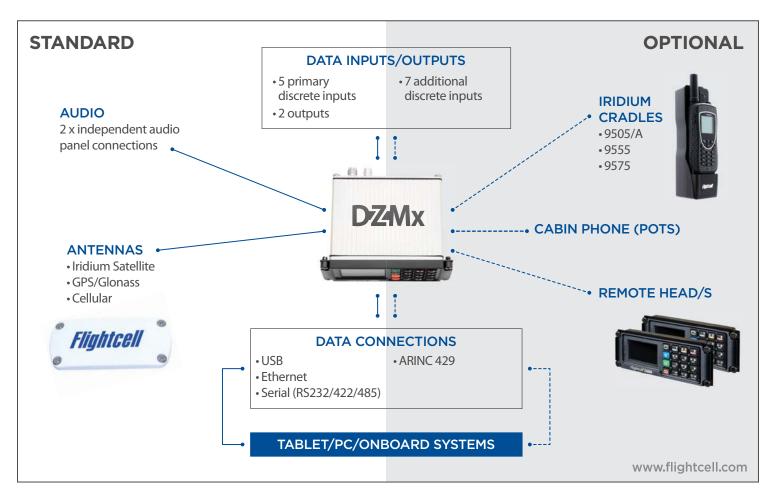
WEIGHT	580-720g (1.21-1.59 lbs)
	depending on configuration
DATA INTERFACES	
Interface	Description
RS232	3-wire serial port
RS-485/422	4-wire serial port
USB-Micro AB Connector	OTG (On-The-Go) USB port
USB-via D25 or D38999	DZMx is USB Host
10/100 ethernet	Ethernet port
General purpose inputs	5 (3 x digital, 2 x analogue)
General purpose outputs	2 outputs
CERTIFICATION	
DO-160G sections 4-9, 15	-21, 25.
ENVIRONMENTAL	
Built to IP54 (Civ), IP65 (N	Mil)
Operating temperature:	-40°C to 70°C

DAS	H NUMBERS
	_04-000
DZM	x Civil no Transceiver
	_04-100 x Civil with Satellite
DZP	_04-300
DZM	x Civil with Satellite & 3G Cell
	_04-020
DZM	x Military, NVIS A, no transceiver
	_04-120
DZM	x Military, NVIS A, with Satellite
DZP	_04-320
D7M	x Military, NVIS A, with Sat & 3G Cell

WHAT'S INSIDE FLIGHTCELL DZMx?



THE DZMx SYSTEM



DESIGN 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

The world's smallest satcom system.

DZMx measures only:

- 4.95" (125mm) wide
- 2.18" (55mm) high
- 4.72" (120mm) deep.

The world's lightest satcom system.

We know every ounce matters, so we've built a system that is 60% lighter than any other satcom system - only 1.4lbs (650g)!

The world's toughest satcom system.

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

Multiple transceiver options, configurable modular design.

1-2 internal transceivers, and optional expansion:

- ARINC429
- Data inputs
- Second ethernet port

Multi-channel options, modular design.

- Single or dual Iridium satellite channels (int.)
- Iridium **plus** 3G/4G LTE cellular (int.)
- Iridium phone in a Flightcell cradle (ext.)

Environmentally sealed for long life and low maintenance.

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

• IP54 (Civ) • IP65 (Mil)

Familiar phone layout.

- Easy to follow menu operation
- Multi-line LCD display
- Soft touch backlit keys

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.

Allows full operational functionality for up to two additional work stations on the aircraft.

Easy configuration.

Use the DZM's menus or embedded web app. Configure phone, data, and tracking settings. Easy firmware upgrades via USB data stick.

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.

Built-in contact list with three speed dial keys.

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

Cabin phone options.

Optional cabin phone over POTS (2 wire) for private satellite and cellular calls Provides cabin to cockpit intercom

Aircraft audio connections.

DZMx provides two independent connections to the aircraft audio system

Connectivity.

Multiple data connections:

- Serial RS232/432/485
- Ethernet
- USB
- Optional ARINC429



GLOBAL DATA

DZMx connects your aircraft to the world via the Iridium satellite narrowband and 3G/4G/LTE broadband networks.

Messaging.

Messaging via Iridium (SBD & SMS) or cellular (SMS)

Pre-configured messaging.

Quickly send preconfigured messages from your DZMx 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
- Custom application development available.

Multiple data inputs.

5 standard switched inputs (digital or analogue).

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

Broadband.

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



DZMx (civil) side view.

GPS TRACKING

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

Trupath™ for more precise tracking.

DZMx bundles multiple GPS positions during each transmission providing 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.

Uninterrupted GPS tracking via Iridium and 3G/4G/LTE cellular can significantly reduce your tracking costs.

Continuous tracking.

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

Event driven tracking.

User-configurable intelligent features to

- Distress reports
- Engine start/stop
- Take off/landing
- Point of interest /OOOI

ARM.

One key sends request to your tracking provider for provide more flight data: Automated Rescue Monitoring. Get notified if tracking is unexpectedly interrupted (where supplied).

AFF compliant.

US Department of the Interior Forest Service AFF compliant tracking.



Mark point of interest.

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

DZMx