

Always Connected Aircraft



Flightcell DZMx

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GLOBAL VOICE

Satellite & Cellular Voice Calls Crystal Clear Audio

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

Full HD digital audio system (input / output) for optimal sound quality and clarity when you need it most.



GLOBAL DATA

Cellular Data

- 4G/LTE cellular data for onboard devices
- Connects via Ethernet and/or Wi-Fi

Satellite Data

- Global Satellite Messaging
- Optional Iridium Certus Global Satellite 88 kbps IP-data

GLOBAL TRACKING

Dual network, uninterrupted GPS tracking via both satellite and cellular to significantly reduce your tracking costs.

Fully unlocked tracking data connecting to all major tracking providers.

Built In Wireless Connectivity



Stay with or choose your airtime, data, and tracking service providers

Key Features



Night Vision Options

Both keypad and LCD displays have night vision compliant back-lighting.

- NVIS B compliant
- NVIS A compliant option (MIL3009)

Mounting Options

- DZUS (5.5")
- GA radio rack (6.25")

User-Friendly Interface

Easy to use, with an intuitive and familiar keypad layout.

- Soft touch, backlit silicone keypad
- Pre-configured quick messaging
- Miskey prevention guard
- Convex keys for accurate gloved operation
- Easy to use LCD menu

DZMX features can be configured on the device or wirelessly via DZMX Connect (web browser version) on your mobile device.

Rugged Design

Built to MILSPEC, DZMx is designed to withstand extremes of temperature, vibration and impact. It has a super strong machined alloy faceplate, extruded alloy housing, and is DO160G certified.



Accessible SIM Cards

Two SIM card slots for satellite and cellular.

Built In Wireless Connectivity



Multiple Data Inputs

Incredibly versatile, providing multiple interface and protocol options for connecting your devices.



Antennas

- GPS
- Iridium Satellite
- Cellular

* Additional feature antennas optional

Simple Installation

All electronics are installed in one compact control head – nothing in the avionics bay, and minimal wiring, meaning substantial savings on installation costs.



Necessary Installation

- Power supply
- Ethernet/USB connector module
- Audio connection to audio system/ICS
- DZMx antennas
- SIM cards

DZMx is installed as a minor change - no STC is required.

* Additional feature antennas optional

Multi-purpose

DZMx is packed with features, providing pilots & operators with tools to enhance flight performance & safety.



Cost Effective Cellular Connectivity

Utilize cellular networks to reduce your aircraft's voice, data & tracking operating costs. If your aircraft falls out of cell coverage the DZMx automatically switches over to Iridium Satellite for tracking. Voice calls, messaging and data transmission can also utilize the Iridium Satellite network - ensuring your aircraft is always connected.



Flight Data Recorder (FDR)

DZMx utilizes its internal GPS and Multi Axis Motion Processing Unit to record flight data compliant with the FAA 135.607 Flight Data Monitoring Requirement. Recorded flight data includes flight path/trajectory, GPS position, flight orientation (pitch, yaw, and bank), rate of descent and aircraft speed and altitude.



Wireless Connectivity

Built-in Wi-Fi and Bluetooth provide the capability to connect and communicate to the ground from anywhere in the aircraft. Connect on device or use DZMx Connect on your mobile device - allowing you to make sat & cell voice calls, send text messages, create custom forms, manage contacts, and more.



Hobbs Meter

Improve billing and maintenance by tracking and recording flight time hours (engine start to engine stop cycles). DZMx records total time and a count down timer to advise when next check is due. This data can automatically be sent to your maintenance planner.

Optional Add-ons

Flightcell® Iridium Certus® 100

Iridium Certus® 100 provides reliable, truly global connectivity for aircraft all over the world.



iridium®

- High-quality satellite voice-based communication.

- Iridium's satellite network provides highly reliable global communications.
- Faster uploads of data, files, and images using 88-kbps bi-directional IP-data system.

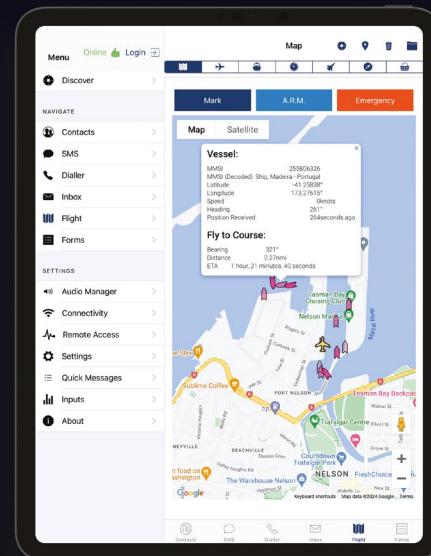
- Utilize VoIP & messaging apps inflight to send and receive images & video clips.
- Reliable & affordable data transmission.
- Control wirelessly (Connect Radio App) or on the unit.



EXPLORE THIS
PRODUCT

Flightcell SDR

The Software-Defined Receiver (SDR) is a tactical enhancement feature that provides greater situational awareness and locator capabilities.



- Monitor radio frequencies between 25kHz to 2GHz.
- Control wirelessly (Connect Radio App) or on the unit.
- Connect to Foreflight or OzRunways EFB apps.

- Connect to iNavX iOS app, DZMx Connect, or on EFB to view maritime AIS vessel info.
- Receive ATIS information, marine channel 16 or VHF121.5 MHZ.
- Listen to your favorite radio station and monitor company frequency.



EXPLORE THIS
PRODUCT

Optional Add-ons



DZMx Remote Head

The Flightcell Remote Head is a compact, light-weight additional control head for the Flightcell DZMx. It provides full functionality from one or more remote locations in the aircraft.

..::: iridium®



Satphone Cradle

The Flightcell Satphone Cradle ensures your Iridium Extreme phone is always secure in the toughest situations, in the air, on land or sea.

Industry Solutions

Flightcell DZMx is highly configurable to meet operational requirements, with a focus on providing solutions for rotorcraft and fixed-wing aircraft across several industries.

Aerial Fire



Air Medical



Search & Rescue



- Optimize aerial fire operations using precise real time data
- Built in ATU meets USFS and NAFC reporting requirements
- Real time flight, positioning and bucket/tank performance event data

- Transmit 12-lead ECG data to emergency department
- High speed data connection to transmit critical patient data
- Retrieve vital patient records in-flight
- Optional second control head exclusively for medical crew
- FAA 135.607 FDR Compliant

- Talk to lost parties and casualties with cell phone coverage
- Access weather and landing zone information
- Uninterrupted GPS tracking over cellular and satellite networks
- Iridium Push-to-Talk (PTT) secure group communications

Industry Solutions

Flightcell DZMx is highly configurable to meet operational requirements, with a focus on providing solutions for rotorcraft and fixedwing aircraft across several industries.

Law Enforcement



Military



Oil & Gas



- Voice, data and tracking over cost effective cellular network
- Back up Iridium Satellite network when outside cellular range
- Uninterrupted GPS tracking over cellular and satellite networks
- Connect mission systems over Wi-Fi and ethernet
- Secure Iridium Push-to-Talk (PTT) group communications
- FirstNet Band 14 certified (US only)

- Global communications over Iridium Satellite network
- Field proven and trusted by US Navy, Air Force & Army
- Rugged all-in-one and easy to use systems
- GSA & DISA approved products (Flightcell DZMx & SVS)
- Iridium Push-To-Talk (PTT), Satphone cradle & Iridium Certus options

- Complies with IOGP 690-5 Helicopter Flight Data Monitoring requirements
- Uninterrupted GPS tracking over cellular and Iridium satellite networks
- Iridium Push-to-Talk (PTT) secure group communications
- Access weather and landing zone information

Technical Specifications

ELECTRICAL

Input voltage	12-32VDC
Power supply current	~1A @ 28VDC
ICS to DZM audio input levels	20mVrms to 1.15Vrms, adjustable
	775Vrms 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	0-32VDC
Backlight colour	Green 520nm
GPS antenna bias voltage	5V
Antenna current	Up to 100mA
Sensitivity	-162dBm (with Flightcell Antenna)
Time to first fix	26s

DIMENSIONS

Faceplate width	146mm	5.75"
Body width	126mm	4.96"
Faceplate height	57mm	2.24"
Body height	54mm	2.13"
Depth (front to rear faces)	110mm	4.33"

DZUS mount
158mm 6.22"
126mm 4.96"
60mm 2.36"
54mm 2.13"
110mm 4.33"

GA mount
158mm 6.22"
126mm 4.96"
60mm 2.36"
54mm 2.13"
110mm 4.33"

WEIGHT

580 – 720g	1.21 – 1.59 lbs
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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 (optional expansion to 12)
General purpose outputs	2 outputs
Optional Arinc	2 Receive ports and 1 Transmit port
Wi-Fi	
Bluetooth	

DO-160G CERTIFICATION

Env. Cat. [(A1)(B1)(F1)]XAB[UG]HXXXXXXAZ[AC][SS]MXXXXXXAX

ENVIRONMENTAL

Operating temperature	Built to IP54 (civilian versions)	IP55 (military versions)
	-40°C to 55°C	-40°F to 131°F

Note: Product specifications are correct as of November 2025. Refer to the Flightcell DZMx installation manual and Declaration of Design and Performance for all technical specifications <https://www.flightcell.com/support/documentation/dzmx>

Our Customers

Flightcell is proud to supply mission critical satellite and cellular communication and aircraft tracking systems to several high profile global aircraft manufacturers and operators, some including:



US ARMED SERVICES



About Flightcell

North America

Middle East

Africa

South America

Europe **Flightcell**

North Asia

Australia

New Zealand **Flightcell**



About Flightcell

Setting quality standards since 2000, Flightcell is a global leader in aviation communication and recording systems, leveraging strong strategic relationships with aircraft manufacturers, industry partners and government.

Flightcell's trusted products are highly configurable for operational requirements, focusing on providing solutions to rotorcraft and fixed-wing aircraft that specialize in aerial firefighting, air medical, search and rescue, law enforcement, business aviation, oil and gas and military operations.

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Flightcell

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View Flightcell DZMx



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