

Always Connected Aircraft



Flightcell DZMx PLUS

Always Connected

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

Industry Specific Applications

Specialised data applications transmit mission specific data for improved aircraft management billing.

- Fire fighting payload and drop-zone data
- Medical - transmit 12-Lead ECG data
- DZMx Connect App for mission critical messaging

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.

INDUSTRY SOLUTIONS

The Flightcell DZMx PLUS is customizable to operational requirements, providing solutions for:

- Aerial Fire
- Air Medical
- Search & Rescue
- Law Enforcement
- Oil & Gas
- Business Aviation

TRANSCIVER UNIT

The Flightcell DZMx PLUS transceiver unit is easily installed in the avionics bay of the aircraft and has space to provide scope for the future expansion of hardware and additional capabilities.

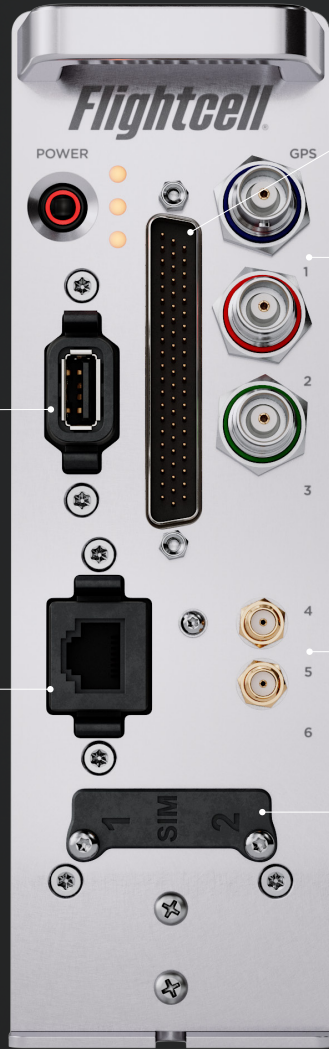
CONTROL HEAD

DZMx PLUS is controlled from the cockpit or aircraft cabin by the Control Head. Multiple Control Heads can be installed across the cockpit and aircraft cabins.



Designed for the avionics bay, the Flightcell DZMx PLUS simplifies the upgrade of your legacy tray mounted satellite equipment. You have the option to stay with your current tracking provider or choose a new provider.

Key Features



Built In
USB &
Ethernet

Multiple Data Inputs

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

Antennas

- GPS
- Iridium Satellite
- Cellular
- Wi-Fi
- Bluetooth

Accessible SIM cards

Two SIM card slots for satellite and cellular



Future Expansion

Designed for future expansion of hardware and additional capability.

Built In Wireless Options



Power Back Up

After aircraft power shut down the DZMX PLUS provides back up power for at least 60 seconds, allowing messages to be continually sent and providing more accurate aircraft positioning.

Simple Installation



Installed under local modification (minor change / alteration)

In some cases a TSO cellular antenna will be added to take advantage of the DZMX PLUS cellular voice and data capabilities.

9.5" (L) x 2.3" (W) x 7.4" (H)
240mm (L) x 59mm (W) x 188mm (H)

Two mounting options

Straight LRU swap out for Sky Connect tray mounted satcom systems or mount on a new ARINC tray.

Flightcell DZMX PLUS can be mounted in the avionics bay on an existing Sky Connect tray or on a new ARINC tray. You have the option to stay with your current tracking provider or choose a new provider.

Control Head Unit



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

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")

Multiple Control Heads

Ability to install multiple Control Heads for added convenience across the cockpit and aircraft cabins.

The Flightcell DZMX PLUS is controlled from the cockpit or aircraft cabin by the Control Head.

DZMx Connect App



Smart Device App

The app works with DZMx's PLUS equipped with the built in WiFi and Bluetooth option, providing airborne operators with the following functionality from their smart phones and tablets:

- Satellite & cellular voice calling and text messaging
- Flight Data Recording (FDR) with real-time motion capture view
- Transfer of contacts between DZMxPLUS and smart device
- Full DZMx PLUS configuration and firmware upgrade
- Real-time connectivity status for both satellite and cellular modems
- Quick messaging and status updates
- Creation of custom data forms



Included app that provides airborne operators with several functions from their cell phones and tablets.

Industry Solutions

Aerial Fire



Air Medical



Search and Rescue



Law Enforcement



Oil and Gas



Business Aviation



The Flightcell DZMx PLUS is well suited for several industries and aircraft types.

Technical Specifications

ELECTRICAL

Input voltage	12-32VDC
Power supply current	-1A @ 28VDC
Built in UPS	Up to 60s
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

DATA INTERFACES

Interface	Description
RS232	3-wire serial port
RS-485/422	4-wire serial port
USB	USB port
10/100 ethernet	Ethernet port
General purpose inputs	Up to x12
General purpose outputs	2x outputs
ARINC 429 (optional)	2x inputs, 1x output

CONNECTORS

Mounting fasteners	Quick release tray	4-#88 holes (any config.)
Main connectors	1x D-SUB 62 HD male	1x Ethernet, 1x USB
Antenna connectors	Transceivers 3x TNC	WiFi: SMA
	GPS: BNC	Bluetooth: SMA

User calibrated high/low set-points
Designed for NVIS compliance

DIMENSIONS

LxWxH	240 x 59 x 188 mm	9.5 x 2.3 x 7.4"
Weight (depending on configuration)	1.1 Kg	2.43lbs

ENVIRONMENTAL

Operating temperature	-40°C to 55°C	-40°F to 131°F
DO160G pending		

DZMx Control Head Unit

ELECTRICAL

Input voltage	12-32VDC
Power supply current	-200mA @ 28VDC
Backlighting control	0-32VDC
Backlight colour	Green 520nm
	User calibrated high/low set-points
	Designed for NVIS compliance

DIMENSIONS

L x W x H	240 x 59 x 188 mm	9.5 x 2.3 x 7.4 "
Weight	200 grams	7.1 oz

CONNECTORS

Mounting fasteners	DZUS or M5
Main connector	Civilian - D15 male
	(mating connector is M24308/2-2F)

MATERIAL

Enclosure: machined aluminium 6061

ENVIRONMENTAL

DO160G sections 4-8, 15-21 & 25	Enclosure: IP54
Operating temperature	-40°C to 70°C

Note: Product specifications are correct as at June 2022. Specifications are subject to change without notice.

About Flightcell

Europe *Flightcell*

North America

Central and South America

Middle East

North Asia

Australia

New Zealand *Flightcell*

About Flightcell

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

Flightcell's trusted products are highly configurable for operational requirements, with focus on providing solutions to rotorcraft, VLJ, and turbo prop fixed wing aircraft that specialise in aerial firefighting, law enforcement, search and rescue, air medical, oil and gas and military.

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Flightcell

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View Flightcell DZMxPLUS



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