

DZM3 is the complete satellite phone, data and tracking solution.



DZM3 combines all the functionality of Flightcell DZM2 into a single, compact, panel-mounted unit, creating the world's smallest and most advanced system.

- **Satellite + cellular voice**
- **GPS tracking**
- **Send + receive data**
(text messaging, email, on-board data)

ENTIRE SATELLITE SYSTEM PICTURED



DZM3 FRONT VIEW (5.25" wide)



TRANSMISSION POINT

TRUEPATH™ POINTS



- Event-driven global tracking
- Better flight track with Truepath™

Flightcell DZM3 is a new concept in aviation satellite communications and tracking, with a single panel mounted module providing: Voice communications + Data + GPS tracking.

Flightcell DZM3 significantly reduces installation and setup cost:

- All electronics are installed in the one panel mounted control head – nothing to go in the avionics bay, and minimal wiring
- Significant reductions in installation and set up time versus all other satcom equipment
- Installation with complete simplicity, setup takes minutes using PC configuration software or the comprehensive setup menu.

Flightcell DZM3's quality is guaranteed

- Crystal clear audio with multiple handset and ICS audio options to suit your satcom requirements, either via headset in the cockpit or handsets for cabin passengers.



- Data connectivity via connected laptop for text messaging, email and internet
- Built tough to meet Milspec standards, DZM3 comes with Flightcell's well established rugged equipment 2 year warranty.

**TAKING ORDERS NOW
DELIVERY Q4 2010**

FLIGHTCELL DZM3

Flightcell's DZM3 delivers two-way voice and data communications via an Iridium satellite transceiver inside the control head.

The DZM3 also delivers cellular modem options for voice and data, plus sophisticated 'smart' flight tracking, anywhere in the world. And it's all seamlessly integrated into a very compact, lightweight environmentally sealed hub.

Flightcell DZM3 is now the world's most compact and advanced satellite phone, tracking and data system. The compact DZM3 system integrates Iridium transceivers into aircraft and vehicle intercom systems, providing:

- Global GPS position tracking
- Data transfer from aircraft to ground via Iridium direct or internet gateways.
- Email and SMS text from the aircraft
- All of the benefits of any built-in satellite phone system from the one compact controller.



VOICE COMMUNICATIONS

- Global voice communications to all ICS stations
- Optional 2 wire telephone connection for DECT cordless phone in the cabin
- Speed dial up to 99 numbers using the DZM3's inbuilt phone book and three quick-dial keys

Multiple communications network options in the one system:

Iridium: Global satellite

The Flightcell DZM3 uses an Iridium L-Band transceiver to provide truly global point-to-point voice and data communications.

Cellular network

A second transceiver connection provides for integration of a cell phone modem providing voice, data and tracking services (where available) at a lower cost than satellite (CDMA, GSM, 3rd Generation, WCDMA, HSDPA).

GLOBAL ASSET TRACKING AND EVENT NOTIFICATION

- DZM3 transmits GPS position data including heading, ground speed and sensor data.
- Event driven position data is also sent including Battery On, Engine Start, Take-off, Landing and Engine Stop. DZM3's Event Driven Tracking is fully programmable on-screen allowing the operator to set interval and event criteria.

Better flight-tracking with Truepath

DZM3 sends an additional three intermediary positions when necessary with every transmission to show more accurately the path that was flown. These extra positions are in effect sent for free and better represent the behaviour and actual flightpath of the aircraft.

- Authorised ground computer terminals can track DZM3 equipped aircraft anywhere in the world without range limitations.
- Manual pilot activated positions or points of interest can be transmitted by a single press or with an optional unique identifier code.
- Distress activation button for instant distress position escalation via a mapping provider.



ARM® Automated Rescue Monitoring

When used in conjunction with a mapping provider that supports ARM® or AFF style computerised SAR watch, DZM3 will provide 24/7 flight following when activated. (AFF Compliant for US Dept of Interior Forest Service).

- DZM3 position statements now recognised by six tracking providers. DZM3 as a new installation will work alongside other legacy systems in the fleet. Choose the DZM3 and choose the Tracking service provider – you are not forced into only one option.

DZM3 brings all of the functionality of Flightcell DZM2 into a single, compact, powerful solution.

DZM3 Specifications

Power supply voltage:	12-32V DC	Fixed control:	5 level options	Faceplate: Dzus	Width: 5.75" (146mm)	
Power supply current:	Up to 750mA @ 28V DC	Backlight LED colour:	Green 540nm. NVIS A&B compliance.	Height: 2.25" (57.25mm)	Depth: .40" (10mm)	
ICS audio to DZM:	Input: 6mVrms to 5Vrms Adjustable gain 600ohm nominal	GPS		Faceplate: GA*	Width: 6.125" (158mm)	
ICS input impedance:	600ohm nominal	TTFS (Time to first fix):	Cold 29secs / Hot <1sec	Height: 2.36" (60mm)	Depth: .73" (18.5mm)	
ICS audio from DZM:	Output: 53mVrms to 5Vrms into 150Ω	Max Velocity:	515m/s (1000 knots)	Mounting fasteners:	DZUS or *M6 Cap Screw	
Ext transceiver audio:	23mVrms to 1.75Vrms Adjustable gain	Max Acceleration:	4G (Tracking)	Main connector:	D25 (Male)	
Ext transceiver data:	RS232C	Max Altitude:	18000m (59000ft)	Data connection 1	D9 (Female)	
Data connection 1:	RS232C	Ext Antenna		Ext Transceiver	D15HD (Male)	
Data connection 2:	RS422	• Connector:	TNC	GPS connector:	BNC (Female)	
NMEA Output	Selectable	• Bias voltage:	5VDC	Iridium connector:	TNC (Female)	
Backlighting control:	0-28V DC or 0-5V AC	• Antenna current:	6-70mA	Certification pending:	D0160E, Sections 8,15,21 Mil Std-704	
		Dimensions: Body, including connectors*		Environmental:	IP53	
		Width: 4.95" (125mm)	Height: 2.18" (55mm)			
		Depth*: 8.60" (218mm)	Weight: 2lb 12oz (1.25kg)			