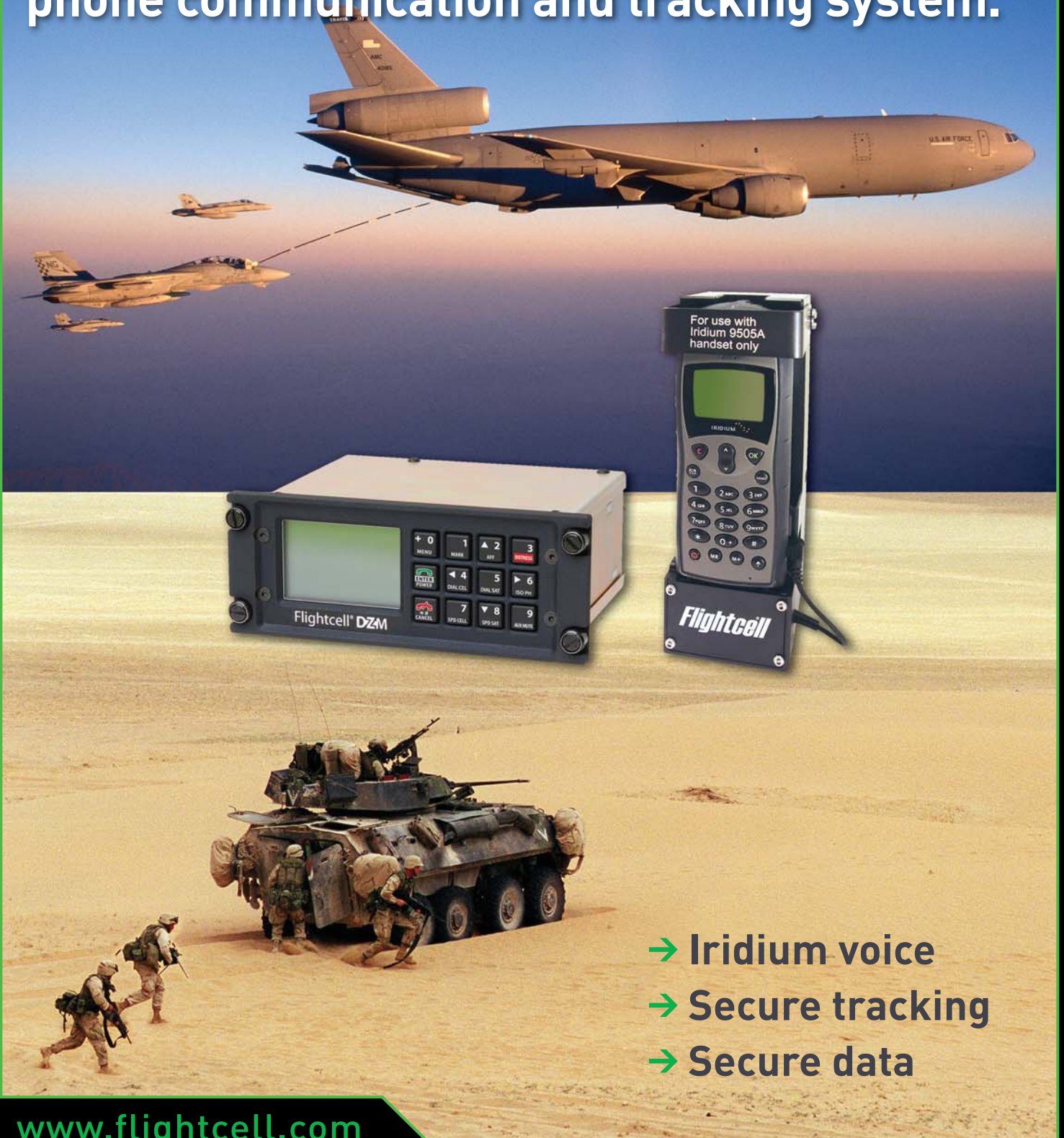


Flightcell® DZM

iridium

Global Voice + Data + Flight Tracking

The world's most advanced Iridium satellite phone communication and tracking system.



- Iridium voice
- Secure tracking
- Secure data

www.flightcell.com

Flightcell DZM delivers user-configurable two-way voice and data communications via Iridium satellite or cellular phone, plus unrivalled, sophisticated 'smart' flight tracking, anywhere in the world. And It's all seamlessly integrated into this very compact and lightweight hub.

Flightcell DZM is the world's most compact and advanced satellite phone, tracking and data system for aircraft and tactical vehicles.

The compact hub integrates Iridium and other satellite, cellular and tactical radio communications into aircraft and vehicle intercom systems, providing:

- Global point-to-point voice communications at all crew stations
- Secure global GPS position tracking
- Secure bi-directional short burst data transmission, allowing mission-critical data to be sent from aircraft to base or aircraft to aircraft.

Flightcell DZM uses an Iridium handset to provide all the benefits of a built-in satellite phone system, while the phone can be removed in seconds from the Flightcell phone mount, providing mobile satellite communications.

Voice Communications

Flightcell DZM can be connected to one or two transceivers to provide global point-to-point communications:

- An Iridium 9505, 9505A or 9522A,
- A cell phone modem or tactical radio.

Calling options:

- Dial on the Iridium handset or connected cellphone modem from the DZM keypad
- Speed dial using the DZM's inbuilt phone book
- Isolate phone calls using the ISO key.



Flightcell DZM: Installed view

Global tracking and flight following

Flightcell DZM uses an Iridium transceiver or other off-the-shelf data-capable satellite phone or cell phone modem to transmit GPS position data.

- Authorized base stations can track aircraft or vehicles anywhere in the world with no range limitations
- Flightcell's programmable adaptive tracking system provides for positions to be transmitted at operator-preset intervals according to multiple criteria:
 - Time interval
 - Course change
 - Above specified speed
- Hot key sends current position
- Distress key sends alert message and position which can be forwarded to operational staff or search and rescue by SMS or email
- AFF key toggles Automatic Flight Following on/off
- Current position can be remotely acquired from base station
- Position data can be encrypted using Flightcell's optional encryption module
- Flexible transmission options – positions can be sent via secure military internet or direct to ground stations with an Iridium or cellular transceiver.

Data transmission

Transmit and receive clear or encrypted data via Iridium or other data-capable transceivers:

- Receive SMS text messages on the DZM display or connected PDA or laptop
- Transmit SMS messages from connected PDA or laptop
- Transmit and receive reports and manifests using custom forms
- Send real time technical or situational data allowing timely decision making.

Secure data option

- Flightcell DZM can be fitted with an optional data encryption module
- The encryption module can be supplied with AES256 or other user-specified algorithm.

User interface

Flightcell DZM is designed with a NVG (Night Vision Goggle) optimized display and keypad, and has an extensive setup menu that allows functions and settings to be customized to best suit user requirements.

The LCD display shows:

- Menu settings
- Phone settings and status
- Current position
- Number dialled.



Now available in environmentally sealed enclosure

Benefits

Flightcell DZM allows easy integration of Iridium and other satellite phone, cell phone or tactical radio options into aircraft intercom systems, to:

- Expand aircraft or vehicle communication options
- Provide global point-to-point communication
- Overcome terrain, range and interference problems that limit radio communications
- Provide global GPS tracking.

Customisation

Firmware upgrades can be uploaded by the user without removing the DZM from the aircraft or vehicle, and both hardware and firmware can be customized on request.

Applications



- Maintain direct contact with base or other aircraft or vehicle assets via voice or data options
- Contact specialist support, such as maintenance, logistics or medical
- Track aircraft or vehicle assets anywhere in the world
- Provide critical real-time data to mission control or engineering support
- Receive data from base.

Iridium satellite phone mount

Flightcell's Iridium phone mount has been engineered specifically for the USAF and provides:

- Convenience and portability - handset can be quickly removed from aircraft when required. Voice, data, antenna and power connectors are all integrated into the mount
- Remote phone dialling via DZM's keypad, allows phone to be mounted out of the way
- Secure mounting of phone in aircraft - the tough alloy frame meets USAF airworthiness requirements
- Automatic power on/off with aircraft power.



DZM Specifications	Power supply voltage: 24-30 V DC	Auxiliary audio input: 6mVrms to 5Vrms Adjustable gain	Max Velocity: 500m/s	 
	Power supply current: Up to 250mA	Left input impedance: 1kΩ	Max Acceleration: 4G	
	ICS transmit audio: Input: 6mVrms to 5Vrms Adjustable gain Input impedance: 2k7	Right input impedance: 1kΩ	Max Altitude: 18000m	
	ICS receive audio: Output: 53mVrms to 5Vrms into 150Ω	Sat phone data connection: RS-232 levels. Settings adjustable for different phone types.	Ext Antenna: <ul style="list-style-type: none"> • Connector: TNC • Bias Voltage: 3V • Antenna Current: 6-70mA • Typical gain: 21dB 	
Sat phone input: 23mVrms to 1.75Vrms Adjustable gain	Cell phone data connection: RS-232 levels. Settings adjustable for different phone types.	PC data connection: RS-232 levels	Dimensions:	
Sat phone output: Typical electret mic levels Adjustable gain	Backlighting control: 0-28V DC or 0-5V AC	Fixed control: Off, Low, Med, High	Width: 5.75" (146 mm) Height: 2.25" (57 mm)	
Cell phone input: 23mVrms to 1.75Vrms Adjustable gain	Backlight colour: Green 540nm. Designed for NVIS B compliance.	Backlight colour: Green 540nm. Designed for NVIS B compliance.	Depth: 5.1" (130 mm) Weight: 17.6oz (500g)	
Cell phone output: Typical electret mic levels Adjustable gain	GPS:	TTFS (Time to first fix): Typ 44s	Mounting fasteners: DZUS	
			Main connector: D38999/20WD35PN	
			GPS connector: TNC	
			Compliance: FAA (RTCA-D0160E), STC	



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