

Flightcell[®]

INTERNATIONAL

Flightcell[®] DZM₂



Voice + Data + Tracking

Global dial-up communications via the Iridium satellite network

GPS flight following

Two-way data transfer

Flightcell International has released its 2nd generation DZM2 system to provide military, government and general aviation customers with integrated voice and data communications and aircraft tracking.

Satellite connectivity is achieved using Iridium 9505A or 9555 handheld satellite phone handsets mounted in a Flightcell Iridium Phone Mount; the removable handset provides the user with access to satellite communications both on and off the aircraft

A second transceiver option allows installation of cellular connection using a cellular modem

Intuitive user interface provides quick access to dialing, tracking and messaging functions

Environmentally sealed housing designed for use in physically demanding environments, including desert, jungle and maritime conditions

Unique dual mode (SMS and SBD) messaging architecture means the DZM2 can transmit position reports even when the Iridium phone is in use for a voice call.

Intuitive 16-key keypad controls phone dialing and all DZM functions

NVG-compliant LCD display and keypad for night operations

Remote configuration of tracking and other settings

Global dialup voice communications

Call any phone number in the world via the Iridium or cellphone network (if cell modem installed)

DZM2 interfaces into aircraft audio system, allowing use of satellite or cell phone through crew headsets

Option to attach standard corded or cordless phone or Iridium DPL handset for use in passenger cabin

Inbuilt phone directory and three speed dial keys provide quick access to commonly dialed numbers

Tracking

Event-based tracking reports:

- Avionics On
- Engine start
- Takeoff
- Course change*
- Altitude change
- Landing
- Engine stop

Regular position reports

- Standard position reports sent at programmed time intervals
- Variable tracking counter sends more frequent reports when aircraft changes course, balancing information with economy

Tracking display options - Integrates with a range of tracking providers to suit fleet operational requirements

- Flight Explorer
- TracPlus
- Guardian SkyTrax

Other tracking features

- Dedicated Distress key allows rapid escalation when the aircraft is in danger
- Unique dual-mode tracking system uses SBD and SMS to ensure position reports are sent even when the Iridium phone is in use for a voice call
- The aircraft can be “polled” from the ground to send a position report



Over the Air Configuration of tracking settings

“ARM” (Automated Rescue Monitoring) supports Automated Computer SAR Watch (if supported by mapping service provider)

Three manual position modes:

Point of Interest (10,000 coded options)

ARM (position reported when requests transmitted)

Distress (Special report type initiates ground response)

Messaging

Coded messaging function – up to 256 different pre-programmed messages can be loaded into DZM2 and sent with current aircraft position; selected message shown on DZM display

Incoming text messages can be viewed on DZM2 display, as well as a connected laptop

Text messages can be sent from a connected laptop

Configuration

Flightcell DZM2’s capability is regularly enhanced; firmware can be updated from a laptop PC in minutes

Easy configuration:

Settings can be changed on the DZM2 using the extensive menu system

Settings, pre-programmed messages and phone directory can be configured from a laptop connected to the DZM2 data port

Settings can be retrieved and reconfigured Over the Air (OTA)

Data

Data transfer options:

Short messages sent by SMS or SBD

Sensor input data transmission

Drag and drop file transfer from connected laptop PC– files are sent via Iridium network

Dial-up internet access (High speed if 3G cell modem attached)

Fax (needs Iridium fax adaptor)

Specialised data from equipment such as an ECG (electrocardiogram)