

THE ONLY **ALL-IN-ONE** SATELLITE AND CELLULAR SOLUTION FOR VOICE, DATA & TRACKING



DZMx

MILSPEC tough.

DZMx is built to MILSPEC and DO160G, and designed to withstand extremes of temperature, vibration and impact. Housed in a super strong extruded alloy case with minimal wiring, it's fast and simple to install. Incredibly, Flightcell DZMx weighs only 1.4lbs (650g)!

Flightcell DZMx is the world's **smallest, lightest** and **smartest** satcom system.



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Flightcell

ALWAYS CONNECTED.

DUAL NETWORK AIRCRAFT TRACKING



GLOBAL SATELLITE COVERAGE



Satellite SBD tracking
Satellite voice/SMS tracking

Auto switch
to cellular tracking

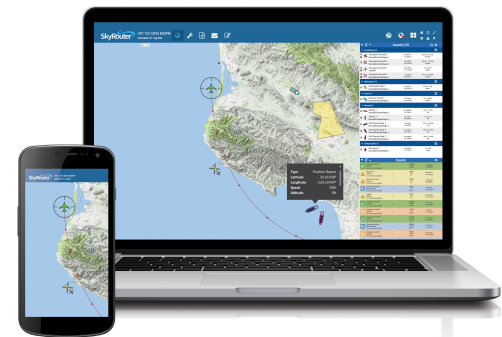
Cellular tracking/voice/data
Satellite voice option

Auto switch
to satellite tracking

CELLULAR COVERAGE

DZMx is the only system that offers dual network, uninterrupted GPS tracking via satellite and cellular networks, significantly reducing your costs.

- **Uninterrupted tracking** - even when on a call
- **Tracking via satellite and cellular networks** - uses lowest cost option when in range
- **NEW: Cellular IP tracking** - more GPS positions for even less cost
- **Event driven-tracking** - user configurable
- **Uses Truepath™** - provides more precise flight path mapping.



THE SKYROUTER™ WEB PORTAL

SKYROUTER™

SkyRouter™ is the industry-leading fleet management and operation portal tracking thousands of assets in over 50 countries. Its intuitive, sophisticated and visually engaging cloud based real-time platform is accessible on any Android or iOS device.



DZMx integrates:

IRIDIUM PHONE IN FLIGHTCELL CRADLE

Use Iridium handset for aircraft satcoms or standalone use away from the aircraft. Versions for:

- Iridium Extreme
- Iridium 9555
- Iridium 9505/A



DZMx REMOTE HEAD

Enables **full** control of DZMx from up to two additional crew positions.

ETHERNET/USB HUB

Provides connection options for:

- Tablets, PCs, other on board systems
- WIFI/Ethernet router
- USB for firmware upgrades and data downloads.



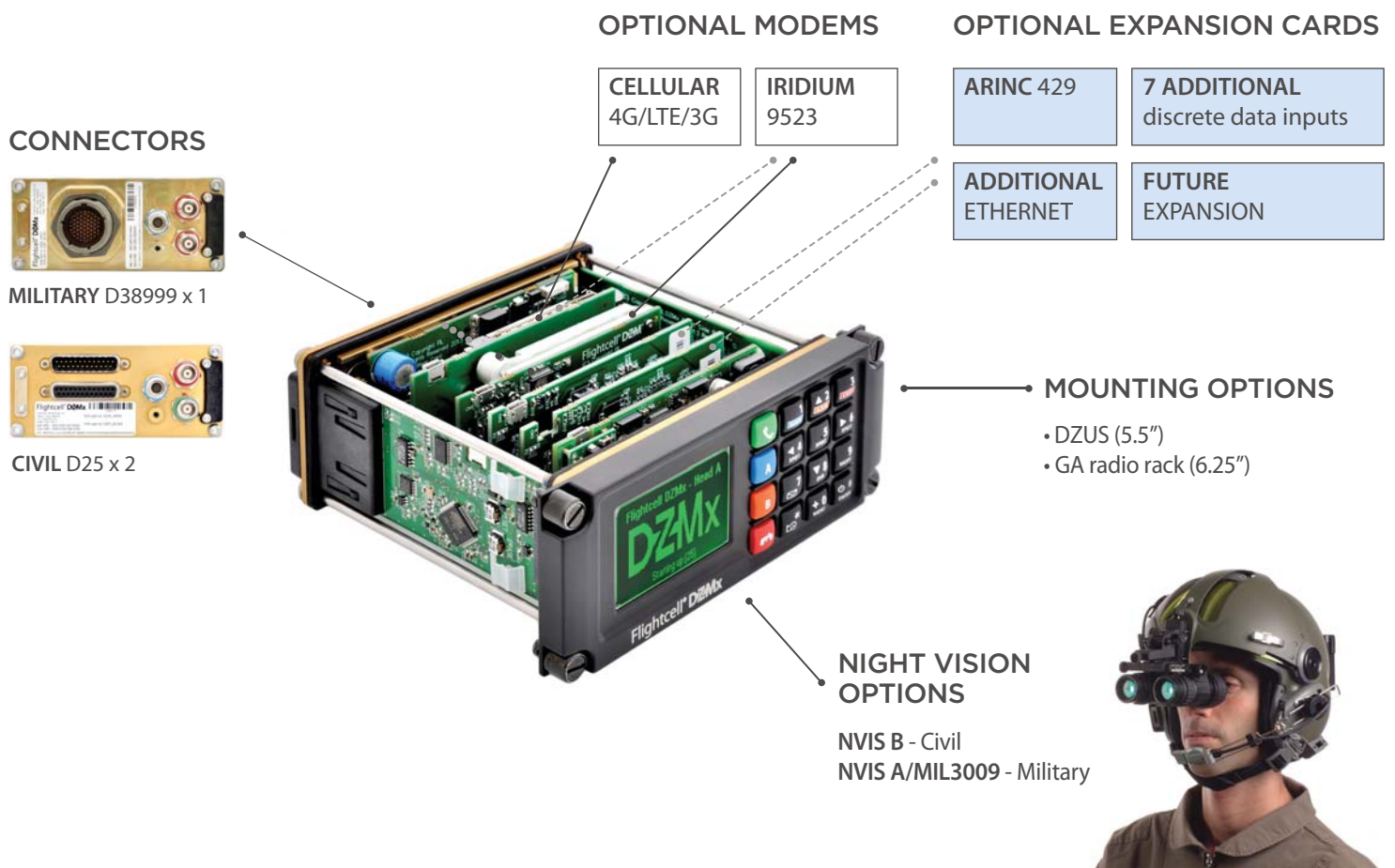
DZMx SPECIFICATIONS

ELECTRICAL		
Input Voltage		12 – 32VDC
Power Supply Current		~1A @ 28VDC
ICS to DZM Audio	Input Levels	20mVrms to 1.15Vrms, adjustable
	Input impedance	775mVRMS nominal 600Ω
Microphone bias voltage		12V via 2.2kΩ
DZM to ICS Audio	Output levels	Up to 5Vrms, adjustable
	Output impedance	775mVRMS nominal 150Ω
Backlighting Control		AC/DC, 0 - 32V User calibrated High/Low set-points Designed for NVIS compliance.
Backlight colour	Green 520nm.	
GPS	Antenna bias voltage	5V
	Antenna current	Up to 100mA
	Sensitivity	-162dBm (with Flightcell Antenna)
	Time to first fix	26s

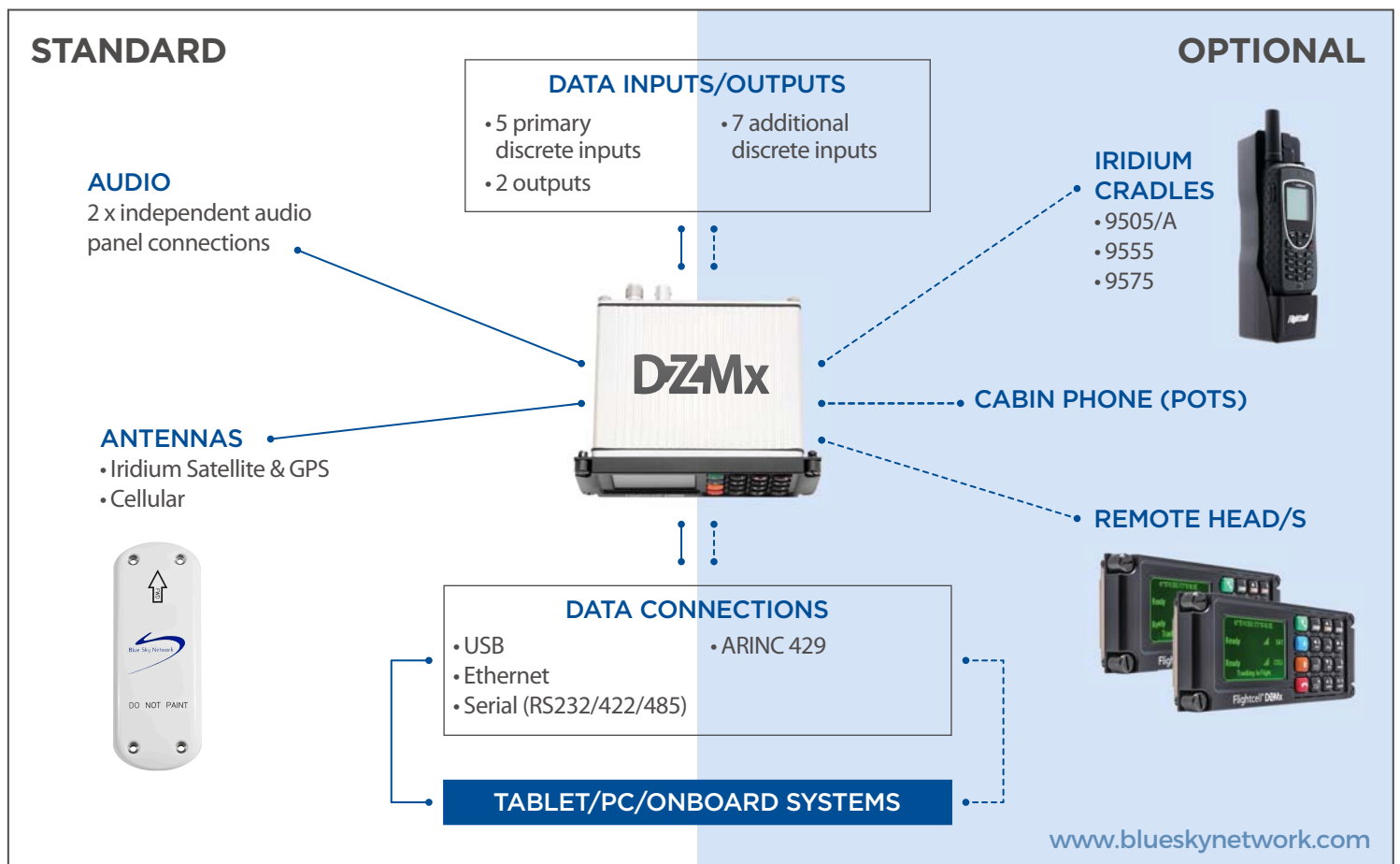
MATERIALS			
Aluminium 6061			
CONNECTORS			
Mounting fasteners:	DZUS or M5		
Main connector:	1 x D25 male plus 1 x D25 female or 1 x D38999 male (military versions)		
Antenna connectors:	Transceivers TNC GPS: BNC		
DIMENSIONS			
	DZUS mount		GA mount
Faceplate width:	146mm	5.75"	158mm 6.22"
Body width:	126mm	4.96"	126mm 4.96"
Faceplate height:	57mm	2.24"	60mm 2.36"
Body height:	54mm	2.13"	54mm 2.13"
Depth (front to rear faces):	110mm	4.33"	110mm 4.33"

WEIGHT	
	580-720g (1.21-1.59 lbs) 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 (3 x digital, 2 x analogue)
General purpose outputs	2 outputs
DO-160G CERTIFICATION	
Env.Cat [(A2)(B2)(F1)]BAB[UG]HXXXXZZA[AC][SS]MXXXXXXAC	
ENVIRONMENTAL	
Built to:	IP54 (Civ), IP65 (Mil)
Operating temperature:	-40°C to 70°C




WHAT'S INSIDE FLIGHTCELL DZMx?



THE DZMx SYSTEM



MORE FEATURES THAN EVER BEFORE

DESIGN FEATURES		The world's smallest and lightest satcom.	The world's toughest satcom system.	Multiple transceiver options, configurable modular design.	Multi-channel options, modular design.
DZMx is the world's only all-in-one satellite and cellular voice, data and tracking system. All electronics are installed in one compact, panel mounted control head – nothing in the avionics bay, and minimal wiring means substantial savings on installation costs.		<ul style="list-style-type: none"> • 4.95" (125mm) wide • 2.18" (55mm) high • 4.72" (120mm) deep • 1.4lbs (650g)! 	Built to MILSPEC and DO160G certified (Sections 4-8,15-21,25) Super strong machined alloy faceplate and extruded alloy housing.	1-2 internal transceivers offering expansion and dual mode redundancy in the event of network failures.	<ul style="list-style-type: none"> • Single or dual Iridium satellite channels (int.) • Iridium plus cellular (int.) • Iridium phone in a Flightcell cradle (ext.)
Environmentally sealed for long life and low maintenance. Designed to withstand temperature extremes, humidity, water, sand and dust. • IP54 (Civ) • IP65 (Mil)	Easy to use, intuitive menu. <ul style="list-style-type: none"> • Easy to follow menu operation • Multi-line LCD display • Soft touch backlit keys • No training required. 	Night vision goggle compliant. Backlit keypad and LCD display are NVIS compliant as standard. <ul style="list-style-type: none"> • NVIS A (Mil) • NVIS B (Civil) 	Accessible SIM cards. Easy access to SIM card slots to change your satellite or cellular network providers.	Optional remote control head. Allows full operational functionality for up to two additional work stations on the aircraft.	Easy configuration. Use the DZMx's menus or embedded web app. Configure phone, data, and tracking settings. Easy firmware upgrades via USB data stick.
GLOBAL VOICE		Satellite and cellular voice calls.	Crystal clear audio.	Audio optimisation.	Standard phone keypad layout.
DZMx is the world's only all-in-one satellite and cellular phone system, providing crystal clear voice communications via Iridium satellite and cellular networks, so you're always connected.		Full global coverage via Iridium satellite and low cost cellular option when in range.	DZMx is a full digital audio system (input/output) for optimal sound quality and clarity when you need it most.	Fully adjustable audio input and output levels to match all audio systems.	DZMx is the only satcom system that uses the standard and familiar phone keypad layout. No training required.
Iridium Push-To-Talk. Global satellite PTT communications between multiple aircraft and ground units.	Built-in contact list with three speed dial keys. All your contacts are accessible from the built-in contact list. Easily manage contacts using DZMx web app.	Cabin phone options. Optional cabin phone over POTS (2 wire) for private satellite and cellular calls. Provides cabin to cockpit intercom	Aircraft audio connections. DZMx provides two independent connections to the aircraft audio system	Connectivity. Multiple data connections: <ul style="list-style-type: none"> • Serial RS232/432/485 • Ethernet • USB • Optional ARINC429 	
GLOBAL DATA		Messaging.	Pre-configured messaging.	 <p>DZMx (civil) rear view showing multiple connection options.</p>	
DZMx connects your aircraft to the world via the Iridium satellite narrowband and cellular broadband networks.		Messaging via Iridium (SBD & SMS) or cellular (SMS)	Quickly send pre-configured messages from your DZMx to: <ul style="list-style-type: none"> • any cell or satphone • your mapping system. 		
Specialised data applications. Transmit mission-specific data for improved aircraft management and more accurate billing. <ul style="list-style-type: none"> • Fire fighting payload and drop-zone data. • Crop dusting flight records, loads and drop data • Airline operations • Custom application development available. 		Multiple data inputs. 5 standard switched inputs (digital or analogue). Optional expansion card provides 7 more inputs. Two digital outputs.	Broadband. Full email and internet via 4G/LTE cellular data (when available).	 <p>DZMx (civil) side view.</p>	
GPS TRACKING		IP Tracking.	Truepath™ for more precise tracking.	Unlocked - choose your mapping service.	Lower tracking costs.
DZMx is the only system that offers dual network, uninterrupted GPS tracking via both satellite and cellular networks to significantly reduce your tracking costs. Now with cellular IP tracking!		New technology using a combination of cellular data & IP (Internet Protocol) technology to offer low cost position points at 15-second intervals.	DZMx bundles multiple GPS positions during each transmission providing more precise mapping of the aircraft track.	DZMx's unlocked data feed is supported by multiple tracking providers - you're not locked into any airtime or tracking provider.	Using cellular networks can significantly reduce the cost of tracking. Expect to get more for less.
Continuous tracking. Simultaneous voice and tracking via a single channel. Send position reports even while on a phone call	Event driven tracking. User-configurable intelligent features to provide more flight data: <ul style="list-style-type: none"> • Distress reports • Engine start/stop • Take off/landing • Point of interest /OOOI 	ARM. One key sends request to your tracking provider for Automated Rescue Monitoring. Get notified if tracking is unexpectedly interrupted (where supplied).	AFF compliant. USFS and NAFC AFF compliant tracking. 	Mark point of interest. Convenient one key activation to manually mark your GPS position. Send optional pre-configured message with GPS position.	