Global SATVOICE solution for long-range ATC communications

Flightcell SVS

Always Connected Aircraft

∵∵ iridium®

GLOBAL SATVOICE COVERAGE

Full Global Coverage

Always-connected aircraft, ensuring pilots' constant connectivity to make and receive calls from air traffic services regardless of the flight path.

Iridium Satellite Network

Global uninterrupted voice communication over the Iridium Satellite network. Flightcell SVS meets the Iridium Compatible Equipment (ICE) requirements.

SUPERIOR AUDIO QUALITY

Closed Circuit

Flightcell SVS provides superior audio quality compared to HF radio systems. All voice communications are conducted over a closed circuit, ensuring no radio fading and unwanted external interference.

Field Proven

Flightcell SVS is field-proven, DISA and GSA-approved, and installed on the US Navy's CMV-22B Osprey.

HF RADIO REPLACEMENT

Cost-Effective

Flightcell SVS is DZUS-mounted and is a cost-effective alternative to aging HF technology.

Low Power Consumption

Flightcell SVS draws only 1A @28V and is significantly easier to install compared to installing bulky and heavy HF radio systems.

Flightcell SVS (Safety Voice Services) provides uninterrupted air traffic voice communications that are not adversely affected by interference that is typical of dated HF technology.

Flightcell *SVS*

SATVOICE solution for multiple industries

Rotorcraft Operators

Regional Airlines

General Aviation

Military

Flightcell SVS is designed for operators seeking a cost-effective and easy-to-install alternative solution to legacy HF Radio.

Superior & reliable SATVOICE using safety voice services

Long Range Communications System

Utilizing the Iridium satellite network, receive uninterrupted global coverage and meet the airworthiness fitment guidelines of AC 20-150B for SATVOICE equipment for Long Range Communication Systems (LRCS).

Full Global Coverage

Flightcell SVS provides worldwide voice communications, ensuring pilots constant connectivity to make and receive calls from air traffic services regardless of the flight path.

Superior Audio Quality

Flightcell SVS provides superior audio quality compared to HF systems. All voice communications are conducted over a closed circuit, ensuring no radio fading and unwanted external interference.

HF Radio Replacement

Flightcell SVS offers superior performance for both long and short-range communications, providing a cost-effective alternative to aging HF technology.

All-in-one Satellite Voice Solution

	HF RADIO TECHNOLOGY	Flightcell SVS
Light and compact all-in-one SATVOICE solution	✕	✓
Cost-effective hardware	✕	✓
High quality audio with no interference or radio fading	✕	✓
Make calls to parties other than Air Traffic Services	✕	✓
Easy dialling to Air Traffic Services	✕	✓
Simple installation	✕	✓

Key Features

Integrated Control Head

The Flightcell SVS is controlled by the user-friendly Control Head.

Prioritized Calling

Flightcell SVS supports priority calling and direct override of calls with lesser urgency.

Safety Voice priority levels:
Emergency / High / Low / No priority

Night Vision Options

Both keypads and LCD displays have night vision compliant back lighting.

- NVIS B compliant
- NVIS A compliant option (MIL3009)

User Friendly Interface

Easy to use, with an intuitive and familiar layout.

- Soft touch, backlit silicone keypad
- Configurable settings and phone lists
- Miskey prevention guard
- Convex keys for accurate gloved operation
- Easy to use LCD menu

Dual and Single Modem Options

Choose between having dual safety voice and non-safety calling lines or a single safety voice calling line (note: only Air Traffic Services can make calls to aircraft through safety voice calling line).
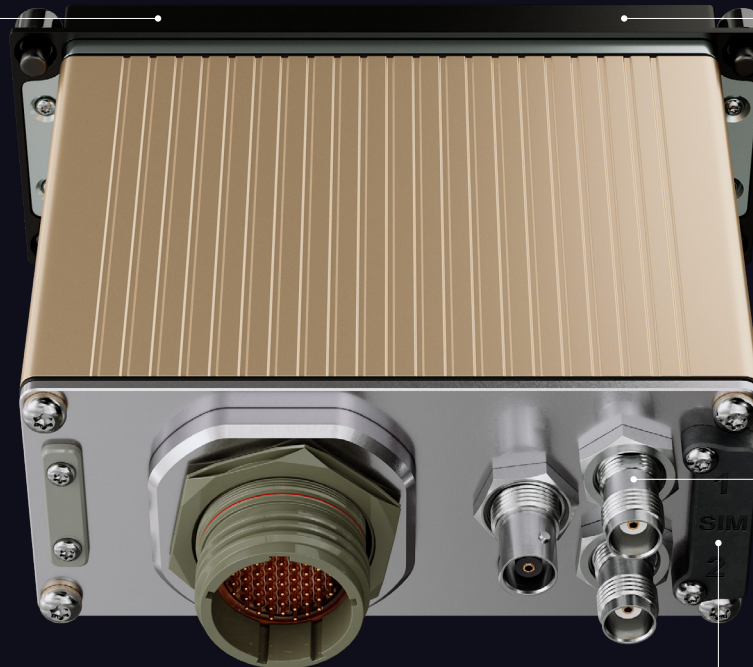
Simple Installation

Flightcell SVS is light and compact and installation is minimal compared to installing bulky and expensive HF systems.

Installed under local modification (minor change / alteration)

Flightcell SVS meets TSO-C159d requirements, however it is a non-TSO certified product. Check with your relevant aviation authorities to determine if a non-TSO certified voice communication system is permitted in your jurisdiction.

Standalone Device

Flightcell SVS is a standalone SATVOICE solution and does not have to be integrated with any other aircraft systems.

DZUS Mounted

DZUS mounted the Flightcell SVS is a light and compact SATVOICE solution for long-range communications.

Modem Antenna Connection

One or two Iridium Satellite antennas (TSO certified)

ATS Sim Card(s)

Available through authorized ATS Safety Voice resellers.

Flightcell svs

Technical Specifications

ELECTRICAL

DC Power Supply	+12V – +32VDC (28 nominal)	Peak current: ~1.3A @ 28VDC
Display	2.4" 240 x 320 RGB TFT Graphics IPS LCD	
Backlighting	Input Dimming Control	0 to 28 VDC
		Scaled from 0-100% based on DC input V
	Color	**Dual mode:** White (daylight operation)
		NVIS Green A (night operation)

AUDIO

ICS to SVS	Input levels (VRMS)	20mV to 1.15V, adjustable
		775mV nominal
	Input Impedance	600 Ohm
	Microphone Bias Voltage	12V via 2.2Kohm
SVS to ICS	Output Levels (VRMS)	Up to 5V, adjustable
		775mV nominal
	Output Impedance	150 Ohm

INTERFACES

Keypad	16 keys (4 x 4 matrix)	
General Purpose Inputs	Input Levels (Vin)	0 to 28VDC
General Purpose Outputs	Levels (Vout)	0 to 32VDC
	Max current (Iout)	500mA

DIMENSIONS

Part Description	DZUS Mounted	
Faceplate width	146.0mm	5.74"
Extrusion width	125.7mm	4.95"
Faceplate height	57.2mm	2.25"
Extrusion height	54.0mm	2.13"
Depth (from front face to rear face)	110.4mm	4.35"

CONNECTORS

D38999	D38999/24WE-35PN
	Mating Connector: D38999/26WE-35SN

WEIGHT

800g	1.8 lbs

ENVIRONMENTAL

Ambient operating temperature	-20C to +55C	-4F to 131F
D0160G Env. Cat. [(F1)(A2)]XXXXXXXXFSZXXXXXXXXXXXXXXXAX MIL-STD-810H MIL-STD		

Flightcell SVS

About Flightcell

North America

Middle East

Africa

South America

Europe *Flightcell*

North Asia

Australia

New Zealand *Flightcell*

About Flightcell

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

Flightcell's trusted products are highly configurable for operational requirements, focusing on providing solutions to rotorcraft and fixed-wing aircraft that specialize in aerial firefighting, air medical, search and rescue, law enforcement, business aviation, oil and gas and military operations.

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