

# Satcom Direct Plane Simple Ku-Band SATCOM Upgrade

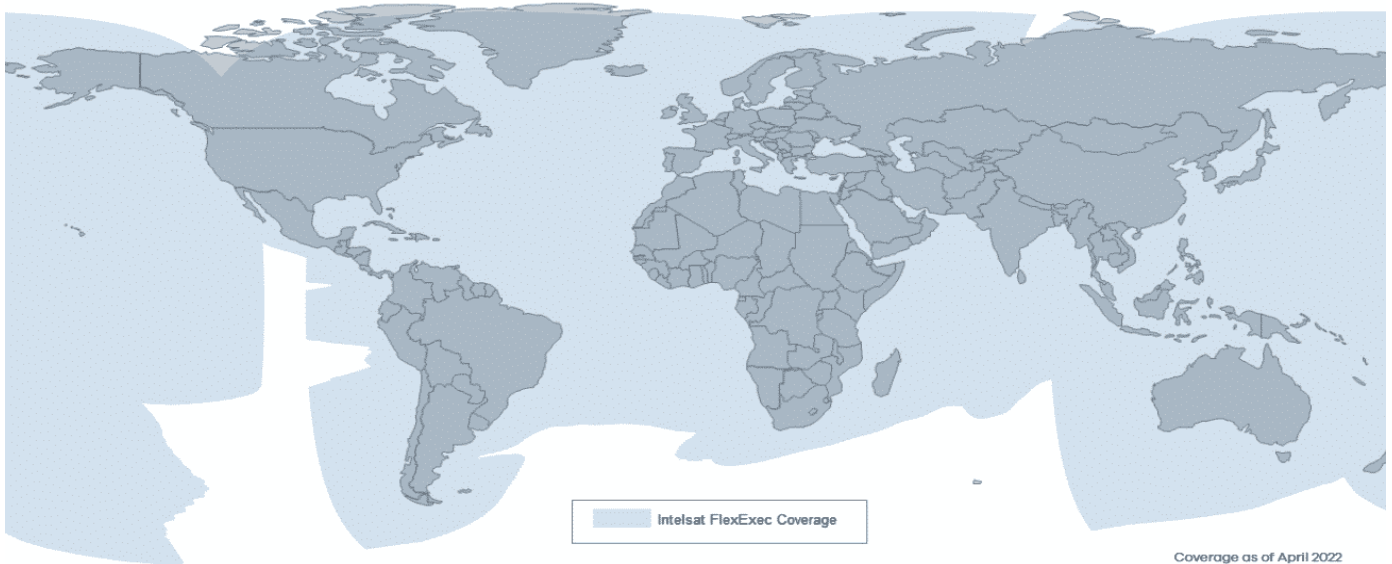


## Key Features

- Global coverage
- 15Mbps downstream (2Mbps upstream) with any Service Plan
- Pay As You Go, Pay by Hour flexible Service Plans, starting from \$630 per hour or GB
- Smallest Ku-Band SATCOM system on the market (Antenna, Transceiver and Router)
- Fastest installation, shortest ground time
- SDR/SDRG router shall exist or to be concurrently installed
- No new SATCOM Radome required for Bombardier Global Express
- LHT TIOS SATCOM Radom is required for BBJ1 installation
- SIDDHIS SATCOM Radome is required for CL601/604/605 installation
- Engineering, EASA STC, full installation kit provided by ALAMO
- National CAA validation available on customer request

Certified for
Bombardier CL604-Var (EASA STC Jul-2022)
Bombardier Global Express (EASA STC)
Bombardier Global Express/ XRS (EASA STC)
Bombardier Global 5000/ 6000 (EASA STC)
Boeing B737-700/800-BBJ1 (in progress)

## Coverage Map



## Flyaway cost/time

#	Description	Effectivity	Cost, USD	Lead Time
1	LHT TIOS SATCOM Radome, Instal. Kit, STC	B737-700/800 (BBJ1)	350.000	16 weeks
2	SIDDHIS SATCOM Radome, Instal. Kit, STC	CL601/604/605	75.000	16 weeks
3	SD Hardware (SMU, ATMA)*	all	235.000	8 weeks
4	ALAMO Installation Kit*	all	30.000	8 weeks
5	ALAMO Engineering Data, STC*	all	20.000	2 weeks
		TOTAL BBJ1:	640.000	16 weeks
		TOTAL Bombardier CL601/604/605:	365.000	16 weeks
		TOTAL Bombardier Global Express/XRS/5000/6000:	290.000	8 weeks

\* excluding SDR/SDRG and WiFi/LTE cabin antennas

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## System specifications

LRUs (Only 2)	SMU – SD Modem Unit ATMA – Advanced Tail Mount Antenna
Installation	All Un-pressurized Simple Wiring (Supports Future Plane Simple Tail-Mount Variants)
Aircraft Interfaces	115VAC 400 Hz Navigation Bus: ARINC 429
Operating Frequencies	RX: 10.70 – 12.75 GHz TX: 13.75 – 14.50 GHz
Network Support	Operates on Intelsat Flex Exec Ku-band network * * Terminal Design is modular and Network Agnostic

## ATMA specifications

Size (LxH)	14.82in x 13.28in (376.35mm x 337.31mm)
Mounting Interface	Common 4-Hole
Swept Volume	12.07in Max (306.70mm) (w/all tolerances & dynamics)
Weight (On Tail)	26.5lbs Max (12.02kg)
Input Voltage	28 VDC (supplied by SMU)
Cooling	Free Convection Cooling Only
Power Consumption	200 Watts Max, 180 Watts Typ
Field of View	Azimuth Continuous 360°, Elevation 0° to 90°
Polarization	Linear Switchable (RX and TX)
All RF Components	Built-In
Antenna Control Unit	Built-In



## SMU specifications

Size	ARINC 600 Style 4 MCU
Weight	13 lbs. Max (5.89 kg)
Input Voltage	115VAC 400 Hz Nominal (Current 2.5A)
Power Consumption	303 Watts Max



## SDR Gateway (SDRG)\* specifications

Two Channels of Iridium voice, ISDN and FAX capabilities
VoIP (Voice over IP) support
Cellular Data Capable with 4G LTE on ground
MIMO Capable
Aviation Certified 802.11 n/ac Wi-Fi capability
Integrated PBX and advanced IP-based router
2-Wire Support and 4-Wire flight deck voice interface
CEPT E1 Interfaces
ARINC 429 Interface
Mounting Provision: ARINC 600 2MCU Rack
Internal Storage up to 1TB



## SDR\* Router specifications

Satellite ready solution for L-Band, Ku-Band, Ka-Band, X-Band, and ATG communications
Gigabit Ethernet Support for WAN, LAN and cabin connectivity
802.11AC Dual-Band (2.4 + 5.0 GHz) Wi-Fi
ISDN Support
Cellular Data with 4G/LTE Mobile Internet access on the ground and remote tech support
Multiple Wi-Fi network support allows for separate guest and/or VIP networks
A429 interfaces for location services, tracking/moving maps, and/or avionics monitoring
Customizable Discrete I/O Support
Mounting provision: Flange



\* either SDRG or SDR shall be installed