C-130 MilliSAT LW Ka-Band MPHS Satellite Communications

DESCRIPTION:

SelectTech and R4 Integration, with partner GETSAT, have developed a unique, ultra-light weight satellite capability for the C-130 utilizing the revolutionary GETSAT MilliSAT LW Ka-band antenna. The Ka-band solution is optimized for transmitting voice and data for Roll-On / Roll-Off (RORO) C-130 airborne applications. This turn-key solution, that includes a dual-modem integrated transit case to access a number of Ka-band networks, is fully FAA-compliant and has been created to work on all C-130 variants.

ANTENNA MOUNT FEATURES & BENEFITS:

- GETSAT MilliSAT LW is a revolutionary steerable blade antenna providing unmatched performance in the smallest of antenna packages.
- Reduced SWaP: Reduces weight of current solutions from 88lbs to < 50lbs
- Mounting Options: Hatch (Multi-Purpose Hatch System) and wing shoulder (Multi-Purpose Shoulder Panel System)
- mil-Ka compatible and Inmarsat GX Type Certified
- Rapid RORO installation with NO modification to the aircraft
- Radomes provide safer solution without obstructions to aircraft surfaces/antennas
- On-site maintenance and repair by certified technicians

INTEGRATED KIT FEATURES:

- SATCOM: iDirect 9800 AR and Inmarsat G-MODMAN for accessing a variety of airborne satellite networks
- Network: Cisco router coupled with electro-mechanical Ethernet and RF switches to provide dual-modem network operation
- Power: Single power input provides power to all components and antenna. Power available for user equipment such as phones and laptops
- Options: Cryptographic devices; additional routing and switching; KVM; custom cable sets
- Full-installation kit to include aircraft-certified cabling
- Integration personnel available for aircraft kit installation

BASE TRASC KIT INCLUDES:

- Antenna and choice of hatch or shoulder panel mounting options (MPHS shown)
- Transit case with components:
  - 6U composite transit case with removable rack
  - iDirect Government 9800 AR Airborne Router
  - Inmarsat G-MODMAN
  - Cisco ISR Network Router -OR- rugged PacStar Small Router Modules (red & black)
  - Electro-mechanical Ethernet and RF Switch
  - Dual-Input Airworthy Power Supply:
    - 115VAC/47-800Hz and 28VDC Inputs
- Antenna and kit cabless (with transit case)
- Dell Rugged Latitude 7424 Laptop

Shown with PacStar Router Modules

ROLL-ON ROLL-OFF (RORO) ELECTRONICS SUITE

FEATURES & BENEFITS:

- Evolutionary Antenna System with Dual Spectrum Access

- High density performance within minimal swept volume

- Tri-axis stabilization

- No downtime to switch bands

- Selectable MIL + COM Ka-band

- Integrates GPS and IMU

- Intuitive User GUI for Monitoring & Control

- Compatible with multiple modem types

- DO-160G compliant

COMMON	Panel Size	480 x 200	Mm
	Terminal Weight	<3.5	KG
	Azimuth range	0-360	deg
	Elevation	0-90	deg
	Power max. (w internal modem and PSAT)	<150	Watt
	Integrated BUC	12	Watt
RECEIVE	Receive Gain	36	dBi
	G/T	12.2	dB/K
	Receive frequency range	19.2 - 21.2	GHz
	Noise figure	1.4	dB
	Polarization	LHCP	
	L band Rx (integrated down converter)	950-2170	MHz
TRANSMIT	Transmit Gain	38.5	dBi
	Transmit Frequency Range	29-31	GHz
	L band Tx (integrated down converter)	950-2170	MHz
	Polarization	RHCP	
	TX EIRP (max)	48.5	dBW
GENERAL	Tx/Rx isolation	>60	dB