



For information contact:

SelectTech: 937.398.0313 • info@sgamf.com

R4 Integration: 850.226.6913 • info@r4-integration.com

TACTICAL REMOVABLE AIRBORNE SATELLITE COMMUNICATIONS FOR C-130 MILITARY TRANSPORT AIRCRAFT

DESCRIPTION:

Designed as a complete, customizable upgrade, TRASC has been developed to provide a multi-functional capability to work with various Ka, Ku, and/or X-band solutions for transmitting voice and data for C-130 airborne applications. Developed in partnership by industry experts SelectTech and R4 Integration, this turn-key solution provides Roll-On / Roll-Off (RORO) capability WITHOUT aircraft modification. TRASC is fully FAA-compliant and has been created to work on all C-130 variants.

ANTENNA MOUNT FEATURES & BENEFITS:

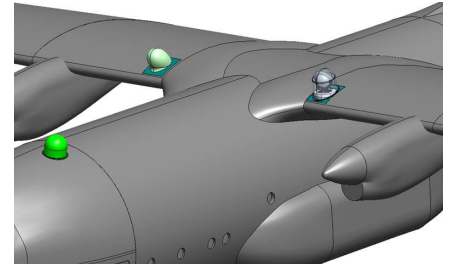
- Reduced SWaP: Significant weight benefits over current solution. Reduces weight from 88lbs to 58lbs
- Mounting Options: Integrates into the airframe at the hatch (Multi-Purpose Hatch System) or wing shoulder (Multi-Purpose Shoulder Panel System)
- Rapid RORO installation with NO modification to the aircraft
- Hatch/Shoulder Panel radomes provide safer solution with no obstruction or interference from other antennas, sensors, or control surfaces
- On-site maintenance and repair by certified technicians
- Provides dual-band SATCOM operations when used with Skytech X/Ka-band or Ku/Ka-band Antenna

INTEGRATED KIT FEATURES:

- Integration of multiple airborne modems and routers based on customer needs
- Network router can be integrated to match customer ground configuration and requirements
- Single power input provides power to all components and the antenna
- Power available through kit for user equipment such as phones and laptops
- Options available: Cryptographic devices; additional routing and switching; KVM shelf; custom cable sets
- Aircraft cabling and panels available to provide a full-installation kit
- Integration personnel available for aircraft kit installation

BASE TRASC KIT INCLUDES:

- Antenna and choice of hatch or shoulder panel mounting options
- Transit case with components:
 - 4U composite transit case with removable rack
 - iDirect 9800 AR Airborne Router
 - Cisco 4331 ISR Network Router with private network switch ports for 8 users
 - Airworthy Power Supply: 115VAC/47-800Hz input with 120VAC/60Hz (equipment) and 28VDC (antenna) outputs
- Antenna and kit cables



SHOULDER MOUNT



HATCH MOUNT



ELECTRONICS SUITE

(base kit)

Complete solution provides enhanced wideband SATCOM capability using cutting-edge technology integrated into a single package providing satellite connectivity, aircraft power, and networking for the most demanding C-130 missions.





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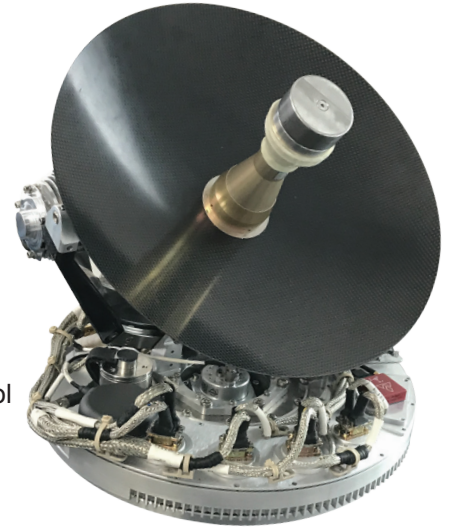
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Preferred antenna is UltiSat-provided SkyTech dual-band antenna integrated with the complete TRASC system.



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



**BB45XKa Dual Band Antenna
Airborne IP Access Point**

PERFORMANCE SPECIFICATIONS:

Frequency	X-band	Ka-band
Transmit:	7.00-8.40GHz	29.00-w31.00GHz
Receive:	7.25-7.75GHz	19.20-21.20GHz
RF Performance	Ku-band	Ka-band
P1dB EIRP:	45.4dBW	54.5dBW
Tx Gain:	30.2dBi	41.2dBi
G/T:	8.2 dB/K	13.9 dB/K
Polarization	Circular	Circular

PHYSICAL & POWER:

Reflector	45cm parabolic
Size	Width/Dia: 48.0cm (18.9in) Height: 55.9cm (22.0in)
Weight	23kg (50.6lbs) incl. ACU, GPS, IMU
Power	28 VDC (Peak 460 W)
Operational Temp	-55° C/+60° C
Tracking	Azimuth: 360° unlim. (70deg/sec) Elevation: 0° - 100° (65deg/sec) Roll: +/-20° (50deg/sec) Pointing Accuracy: <0.2deg
Interface	10/100 BaseT Ethernet

**BB45KuKa Dual Band Antenna
Airborne IP Access Point**

PERFORMANCE SPECIFICATIONS:

Frequency	Ku-band	Ka-band
Transmit:	14.00-14.50GHz	29.00-31.00GHz
Receive:	10.70-12.75GHz	19.20-21.20GHz
RF Performance	Ku-band	Ka-band
P1dB EIRP:	46.7dBW	54.5dBW
Tx Gain:	34.9dBi	41.2dBi
G/T:	12.0 dB/K	13.9 dB/K
Polarization	Linear	Circular

PHYSICAL & POWER:

Reflector	45cm parabolic
Size	Width/Dia: 48.0cm (18.9in) Height: 55.9cm (22.0in)
Weight	23kg (50.6lbs) incl. ACU, GPS, IMU
Power	28 VDC (Peak 460 W)
Operational Temp	-55° C/+60° C
Tracking	Azimuth: 360° unlim. (70deg/sec) Elevation: 0° - 100° (65deg/sec) Roll: +/-20° (50deg/sec) Pointing Accuracy: <0.2deg
Interface	10/100 BaseT Ethernet