TACTICAL REMOVABLE AIRBORNE SATCOM

For C-130/L-100 Transport Aircraft

T R A S C
tactical removable airborne
satellite communications

Industry leaders R4 Integration and GetSAT have developed a powerful and ultra-lightweight SATCOM capability for C-130 aircraft. It features GetSAT's revolutionary Milli SAT EX lightweight Ka-band antenna for optimized voice, video and data transmission. R4 Integration's patented Roll-On/Roll-Off (RO/RO) Multi-Purpose Hatch System (MPHS) SATCOM solution is turnkey and includes a custom dual-modem integrated Base Kit to access various Ka-band networks simultaneously. It is fully DoD and FAA certified for all C-130A – J and L-100 variants.

MOUNTING FEATURES:

- Mounting options: center/forward escape hatch
- Rapid RO/RO installation (15 min.) with NO MODIFICATIONS to the aircraft
- Optimized SWaP over previous solutions (reduced weight from 88lbs to < 45lbs)
- NO IMPACT to other aircraft systems or surfaces
- Field serviceable by certified technicians
- Fully DoD and FAA CERTIFIED

GETSAT'S MILLI SAT EX

antenna offers unmatched performance in an extremely compact package of just 22 kg. It provides high bandwidth data throughput exceeding 30 Mbps with HTS satellites.
Milli SAT EX supports commercial and military Ka-band and is compatible with Inmarsat's GX network.

MILLI SAT EX

RF PERFORMANCE	KA BAND
Tx Frequency	29-31GHz OR 27.5 - 30GHz
Rx Frequency	19.2-21.2GHz OR 17.5 - 20GHz
Max G/T	12 dB/K
Polarization	RHCP/LHCP (co-pol / cross-pol)
Max EIRP	48dBW (12W BUC)
Tx / Rx isolation	>60 dB
Panel Size	20X48 CM (7.9X18.8'')

SYSTEM	
Azimuth	Continues coverage over full 360°
Elevation	-8° to 90°
Control Technique	Combined IMU / RSSi / GPS
Velocity	Azimuth >200° / Sec, Elevation > 200° / Sec
Initial Acquisition Time	<30 sec
Re-Acquisition time	<100ms (depends on modem)
Management	Web Interface/ Open AMIP 1.16/ SW ICD
Power Input	22 - 56v DC
Power Consumption	Rx Only ~ 25Watts
Interfaces	TOTAL – 150 Watts (12W Buc PSAT)
Weight	GPS, RS-232, Ethernet, TX/RX, Other
System Size	22kg (48lb) incl. Radome & Hatch Mount 38 X 65 CM (15x26")

BR001

PACSTAR 447

- Enables teams from U.S. DoD, Homeland Security, First Responders and civilian organizations to easily and securely connect multiple devices to mission-critical com networks
- Based on Cisco® technology and provides 2 GigE (SFP or RJ45) WAN ports and 4 GigE RJ45 ports of PoE LAN access.
- Provides industry leading SWaP-C
- MIL-STD tested and approved
- Leading developer and supplier of advanced, interoperable tactical and enterprise communication systems for organizations with complex communications requirements

HIGHLIGHTS

- Revolutionary antenna system with dual spectrum access
- High density performance and minimal swept volume
- No downtime to switch bands
- Certified Military Ka, Commercial Ka &Inmarsat GX
- Integrated GPS and IMU
- Intuitive GUI for monitoring & control
- Compatible with multiple modem types
- DO-160G and MIL-STD certified
- Custom installation (Roll-On/Roll-Off or Permanent)
- Ultra-lightweight, compact, cost-efficient, upgradable, turnkey

*PICTURE OF BASE KIT IS REPRESENTATIVE ONLY

US 9,016,631 B2
FAA STC # ST02495LA
and DoD CERTIFIED.

PATENTED

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R4 PART # 0011A-690-S1-PS2-00-ID1-IN1-000-624-00

R4 PART # 0011A-690-S1-PS2-MP1-ID1-IN1-000-624-00 (w/ opt. MilPower)