



# Roll-On Roll-Off SATCOM for C-130 Fleets

Governments are seeking to maximise their capabilities by extending the use of their existing platforms. The versatility of Hercules C-130 makes it the multi-role aircraft of choice.





# A turnkey C-130 SATCOM solution

Enabling global access to high-throughput Viasat Air-IQ services

The Tactical Removable Airborne Satellite Communications (TRASC) solution is a versatile upgrade for C-130 fleets. TRASC can be installed without modifying the aircraft.

It provides Roll-On/Roll-Off (RORO) satellite communications that enable multi-functional capabilities for transmitting voice and data in Ka bands. This keeps crews connected wherever the mission takes them.

From data-intensive intelligence, surveillance, and reconnaissance (ISR) operations, to MEDEVAC, telemedicine, airborne teleconferencing, and mission briefing capabilities - the solution facilitates a capability step change.

Backed by the robust Viasat Air-IQ network infrastructure, our C-130 RORO solution gives your aircraft access to Viasat's proven G2X Air service. For more demanding missions, it also provides access to the G2X Air Plus and K-MAX high return throughput products.



## Key Benefits:

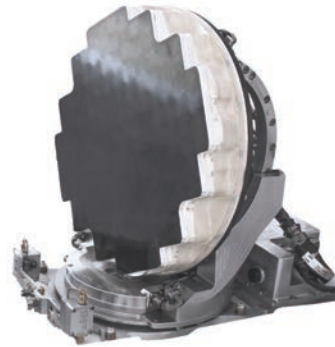
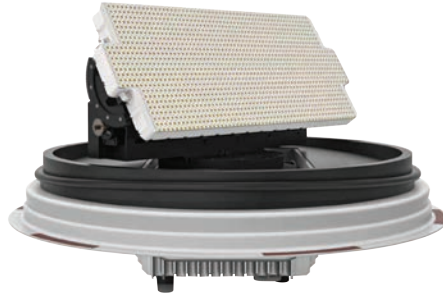
- High, scalable data rates enabled by Ka-band GEO constellations for data intensive missions.
- Beyond Line of Sight (BLOS) communications for high-definition video, sensor data, and ISR data transmission.
- Roll-On/Roll-Off Capability – the removable characteristics of the TRASC solution allows quick installation and removal using the aircraft's existing escape hatches, requiring no modification of the C-130 airframe (reduced certification burden and efficiency gains).
- Support for secure communications in remote locations – the solution can integrate with sovereign comms equipment to provide connectivity during sensitive missions in contested environments.
- Standalone system – no interaction with the aircraft's mission computer required, enabling a rapid capability upgrade path for C-130 operators.
- Lightweight and low form factor – terminals have small footprints to minimise the aerodynamic impact and increase fuel efficiency.
- Seamless handovers and reliability – during C-130 long endurance missions, RORO terminals will be able to seamlessly switch between satellites and beams to ensure reliable, continuous BLOS communications.

# Features:

- Access to Viasat's ubiquitous Global Xpress (GX) Ka band network, providing global coverage (including the Arctic).
- Compatible with Viasat's Air-IQ service, enabling mission-specific high data rates.
- Removable airborne terminal that repurposes a C-130 hatch (MPHS).
- A radome that requires no airframe modifications.
- Operates via C-130 electrical power system (28 VDC or 115 VAC 400Hz) with low power consumption.
- Secure communications support.
- DO-160G environmental qualification for aircraft safety and certification.
- Ruggedised for C-130 airborne operations in challenging environments.
- MIL-STD-810H and MIL-STD-461F compliant, required for durability and reliability.
- Certifiable via STC through FAA or EASA
- Lightweight yet robust design that ensures continuous data link during C-130 manoeuvres.
- Designed for easy, 15-minute deployment and compatible with all C-130 variants.



# Specifications



Antenna	GetSAT Milli-EX RORO (C-130)	PSKa RORO (C-130)	GX30 RORO (C-130)
<b>Primary Modem</b>	G-MODMAN III	SD SMU	G-MODMAN III
<b>Secondary Modem</b>	-	-	Teledyne Axiom/Viasat MBR
<b>Description</b>	Ka-band, FMA, electronic steerable array.	Ka-band, FMA, electronic steerable array.	Ka-band, 30cm parabolic antenna.
<b>G2X Air Plus</b>	Yes	Yes	Yes
<b>K-Max</b>	No	No	Yes (Ka only)
<b>VS-3</b>	No (VS-3)	No (VS-3)	No (VS-3)
<b>Modem Type</b>	1RU and ARINC enclosures	1RU and ARINC enclosures	1RU and ARINC enclosures
<b>Form Factor</b>	(L) 66.04cm (W) 66.04cm (H) 69.85cm	(L) 66.04cm (W) 66.04cm (H) 69.85cm	(L) 66.04cm (W) 66.04cm (H) 69.85cm
<b>Block Up Converter (BUC)</b>	48.5dBW EIRP typical		52dBW EIRP typical
<b>RF Bands</b>	Com Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) & MIL-Ka (RX x 20.2-21.2GHz, Tx 30-31GHz)	Com Ka(Rx: 17.7 - 20.2 GHz, Tx: 27.5 – 30 GHz)	Com Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) & MIL-Ka (RX x 20.2-21.2GHz, Tx 30-31GHz)
<b>Power Source</b>	+28VDC	115 V / 400Hz AC Power	+28VDC
<b>Equipment Interface</b>	Multi Ethernet data; ARINC 429 from aircraft navigation bus	Multi Ethernet data; ARINC 429 from air- craft navigation bus	Multi Ethernet data; ARINC 429 from air- craft navigation bus
<b>Weight</b>	22kg (48.5lbs) including radome and hatch mount	TRASC Hatch: 33.6kg (74lbs) Base Kit 150-180lbs	TRASC Hatch: <60.5lbs Base Kit 68kg to 81.6kg (150-180lbs)

# C-130 RORO Hardware

Antenna



Cabin Routers



Base Kit



Modem





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