
ROTARY WING BROADBAND SATCOM

Through-the-blades Satellite Connectivity
for Enhanced Situational Awareness

Viasat™ 



Keep warfighters connected with through-the-blades satellite connectivity

Broadband Satellite connectivity in helicopters has been challenging — until now. With Viasat's through-the-blades, beyond-line-of-sight (BLOS) satellite communications, rotary wing aircraft can take advantage of high-speed, high-quality satellite communications (SATCOM) previously unavailable to them. This new capability will allow real-time, critical information to users on the rotary-wing aircraft or at command centers, so they can make time sensitive decisions that could affect mission success.

Before, rotating blades would distort signals, making broadband communications problematic. Viasat has developed a unique waveform solving this critical issue, allowing signals to pass through the blades and enabling real-time information transmission — increasing intelligence for successful mission execution, anytime and almost anywhere in the world.

Provide mission-critical support across the battlespace and beyond

Outfitting a rotary wing aircraft with resilient, SATCOM capabilities allows for through-the-blades broadband and seamless roaming across multiple high-capacity broadband networks — substantially changing the CONOPS and the missions they support.

- › Infiltration/exfiltration
- › Intelligence, Surveillance and Reconnaissance (ISR)
- › Search and rescue
- › Telemedicine
- › Border protection and law enforcement
- › Firefighting and disaster relief

Rotary wing broadband SATCOM improves warfighters ability to conduct time sensitive, mission-critical actions:

- › Send and receive bandwidth-intensive full-motion high definition (HD) video
- › Conduct high quality, en-route real-time video teleconferencing
- › Exchange information on the WinTak application for precision targeting, location and chat
- › Exploit TAK, VOIP, chat, email, telemedicine and other emerging communications applications



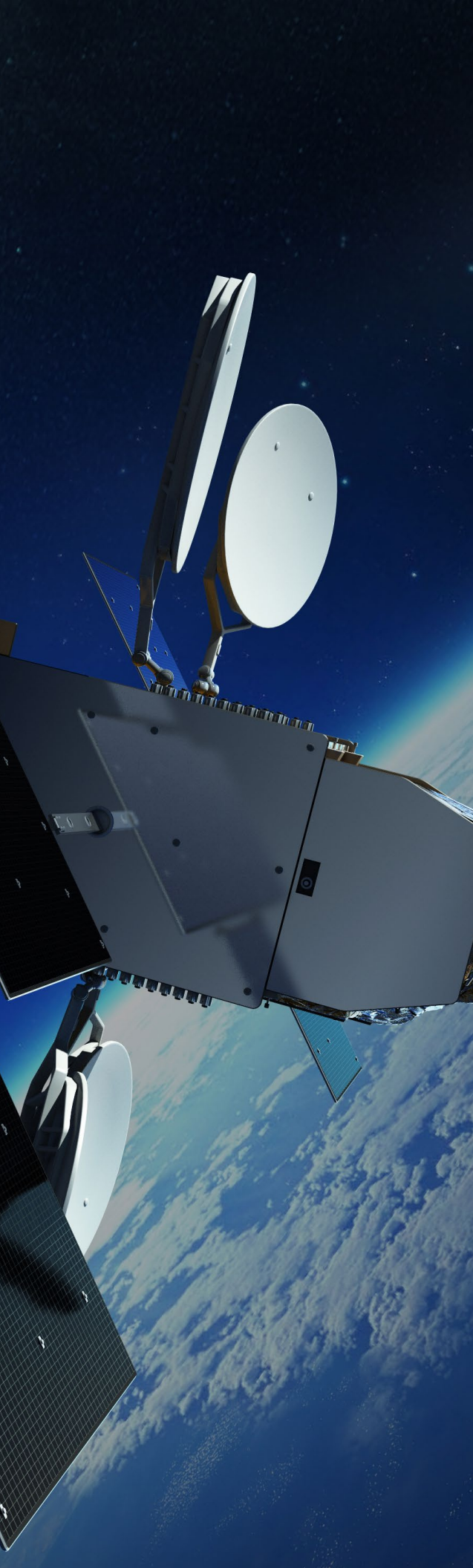
Proven, industry-leader in airborne broadband SATCOM

Viasat is the technology leader for airborne mobile broadband SATCOM. We have a deep history of helping warfighters and emergency first responders access and share trusted information from almost any location to make better decisions faster. Defense and homeland security organizations count on us for SATCOM solutions and capabilities at many frequency bands. In the rapidly growing field of rotary wing broadband SATCOM, we are paving the way with private sector innovation, informed from our vast experience with military customers.

We've achieved incredible success and market penetration with our satellite solutions on fixed wing, maritime and UAS platforms over the past decade. Helicopters are the next platforms ready to integrate broadband satellite solutions to meet and improve mission requirements.

We successfully demonstrated this powerful application with a U.S. Army UH-60 Blackhawk and USSOCOM MH-47 Chinook, where the two platforms were able to utilize various high-capacity satellites to gain multi-domain battlespace awareness.

The innovation doesn't stop there. Viasat is currently planning a scalable network for rotary applications bridging to high-capacity Ka-band with forward compatibility, and striving to continue to develop and field new and innovative Ku-band and Ka-band SATCOM capabilities, from antennas and terminals to satellites, services and relationships, worldwide.



Connect to the world with a best-in-class network

When partnering with Viasat for your rotary wing broadband needs, you are not just getting a SATCOM solution — you are getting access to Viasat’s network.

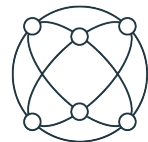
Viasat’s high-speed, high-capacity network provides end-to-end military SATCOM broadband service to help keep warfighters connected and safe from base to objective. Regardless if you are operating close to base or deploying expeditionary forces, our service empowers platforms in the air to stay connected.

Our Best Available Network (BAN) takes advantage of Commercial GEO Ku and Ka, Commercial MEO Ka, and Military GEO Ka to enable roaming between networks of your choice versus being saddled to a single provider. And in the future, Viasat intends to deploy with adaptive networking, which would provide users flexibility to meet their SATCOM needs. Viasat’s SATCOM service is more than just forward and return link rates. It is about enabling critical, new operational capabilities.

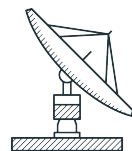
Viasat’s wideband SATCOM benefits include:



Innovative solutions built around the needs of many different end users



Open architecture with plug and play capabilities that are interoperable with existing and future technology



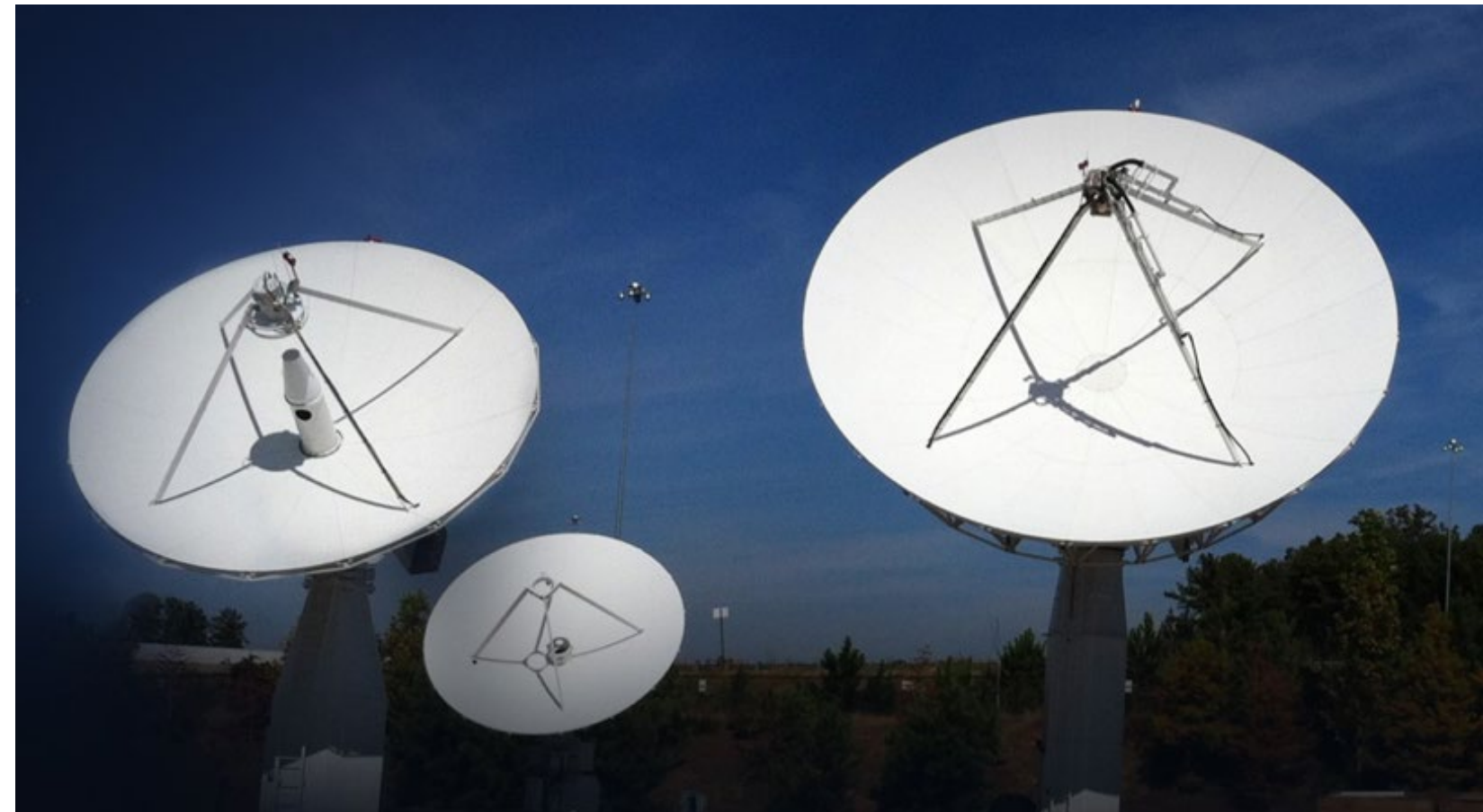
Ability to enable multiple networks and constellations of satellites

Custom-built solutions to meet your rotary wing broadband SATCOM needs

Viasat is here for you. We offer tailored service plans to meet your unique needs and missions. Whether you are seeking one component or many, we will work with you to implement through-the-blade broadband on your rotary wing aircraft. Components include:

- › SATCOM bandwidth and service
- › Airborne modem (with waveform)
- › Ground station
- › Airborne antenna
- › Antenna mount

Our 5,000+ global team members are dedicated to making your mission a success. We offer optional “white glove” care through our 24/7 Government Customer Care Center, Network Operations Center and Cybersecurity Operations Center.



Get 24/7 support from your global communications partner

As a 35-year-old global broadband services and technology company, Viasat is delivering and protecting information — when and where it is needed the most — with our trusted communications, ground systems, network infrastructure and services. You can trust us to provide you with end-to-end service and support for nearly any mission or need, anytime.

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