

Hughes HeloSat Solution

The Hughes HeloSat Solution brings advanced Beyond-Line-of-Sight (BLoS) communications with new capabilities to rotary wing platforms, including 360° in-flight connectivity and simplified roll-on/roll-off installation. Designed with an open standards architecture, this innovative Solution enables a customizable system for sharing of real-time situational awareness from the sky to decision-makers on the ground, supporting any mission requiring reliable BLoS airborne communications.

Employing the novel HM200 software-defined modem and waveform technology, the Hughes HeloSat Solution is integrated with two lightweight, low SWaP terminals to deliver uninterrupted transmission of critical data, including SIGINT and real-time full motion HD video to single or multiple ground stations. Mounted on top of the armament subsystem platform with one terminal on each side of the helicopter, the easy roll-on/roll-off configuration has two primary benefits. First, it allows for 360° of connectivity eliminating signal blockage from the fuselage; and secondly, it makes for a cost-effective and agile solution by eliminating expensive structural changes to the aircraft and associated recertification of flight-worthiness.

Applications:

- Airborne ISR gathering
- Search and rescue
- Border security
- Wildfire and disaster response

Hughes HeloSat Solution specifications:

- System designed to DO-160 and MIL-STD-810 standards
- Weight: Modem ~8 lbs ea.; Terminal ~20 lbs ea.
- Modem dimensions: 8.5" x 5.5" x 3.9"
- Modem: SCPC or MF-TDMA; Supports Hughes HX, HM, or HT Series
- Throughput: Up to 10 Mbps depending on satellite parameters
- Operational frequencies: Ku, Ka, and Mil-Ka
- Installation: Quick attach and release mounting



Benefits

- 360° in-flight connectivity
- Agile roll-on/roll-off installation
- Zero packet loss transmission through the rotor blades
- Reliable VoIP and real-time video
- Low SWaP constraints
- Rapid deployment
- Cost-effective solution



HM200 Modem

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