

SR₂₂

p-LEO Ku/Ka SATCOM & ISR SOLUTION

R4 Integration has developed a prototype SATCOM solution, specifically for the SR-22 aircraft. It provides low-altitude tactical surveillance, intelligence and reconnaissance (ISR) capability by operating a lightweight and compact imaging system that can be controlled remotely from the ground.

The two aft-passenger seats were removed to accommodate installation of a WESCAM MX-10 sensor and ruggedized proliferated Low Earth Orbit (p-LEO) Ku/Ka band antenna. The R4 prototype solution includes a mechanism which securely deploys the turret to the side of a modified replacement baggage compartment door. It retracts and stows the MX-10 inside when not in use. From concept to successful flight tests, R4 was able to deliver in record time.



WESCAM MX-10

With fully active, 4-axis stabilization, the multi-spectral sensors provide imaging over multiple wavebands, ensuring both day and night imaging capability over a wide range of weather conditions.



p-LEO Ku/Ka band Antenna

A SATCOM user terminal (UT) designed with portability, MILSPEC ruggedization, and aviation use in mind. It enables high-throughput, low latency broadband internet communication.



OPTIONAL ANTENNA:



GET SAT AERO BLADE M NANO Ka

(Amazon LEO constellation, formerly "Project Kuiper")

- Super compact all-in-one ESA terminal includes a modem, AMU, FCU, tracking sensors, a full RF front end, integrated modems for LEO and GEO
- Near-seamless multi-orbit connectivity for ultimate flexibility
- Ultra-fast satellite switching
- Secure, low-latency connectivity for mission-critical and high-data-rate applications

THE COMPLETE SYSTEM INCLUDES:

- p-LEO Ku/Ka or AERO BLADE M NANO Ka antenna
- WESCAM MX-10 imaging system
- OVERWATCH ASO computer
- ETHERNET SWITCH with WIFI capabilities
- TOUGHBOOK display
- REPLACEMENT DOOR with all necessary mounting hardware and cabling



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CONTACT R4 INTEGRATION FOR MORE INFO!

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