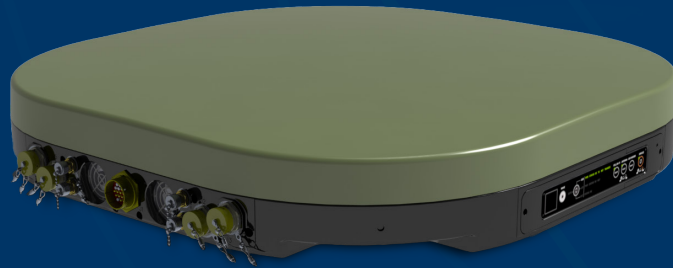


The Kymeta Osprey™ u8

ADVANCING ON-THE-MOVE
SATCOM CAPABILITIES IN
STRYKER VEHICLES



OSPREY™
u8



SITUATIONAL STATEMENT

The modern battlefield is a complex and rapidly evolving environment. The emergence of technological threats such as cyber and electronic warfare poses increased challenges for military forces to communicate effectively and securely, making the need for modernization even more critical to advance joint-force capabilities and transform the future of warfighting.



THE CHALLENGE

In February 2023, soldiers from the U.S. Army's IIIAC CG's Executive Communications Team took on the task of transforming the Stryker Combat Vehicle to a fully functional mobile command post on-the-move communications capability.

As described by the III Corps, the project began by first installing the Coalition Commercial Equipment (CCE) in the Stryker and using its native satellite communications (SATCOM) capabilities, and with a clear line-of-sight, the Warfighter 23-4 Exercise (WFX 23-4) progressed without issues. However, once the Stryker was mobile, the team started experiencing connectivity issues that required them to maintain line-of-sight connection back to the Tactical Communications Node (TCN). This discovery prompted the question: *how to acquire consistent on-the-move connectivity across multiple enclaves while keeping a small footprint?*

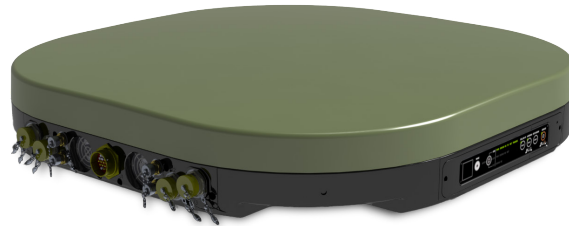
THE KYMETA SOLUTION

The III Corps shifted their focus to the third trial with the Stryker, now equipped with the Kymeta Osprey u8 terminal. The field-proven Osprey u8 has been deployed within multiple U.S. and global forces to enable warfighters with satellite and cellular high-throughput connectivity while on the move and in GNSS-denied environments.

In the words of Staff Sgt. Christopher R. Hill and Staff Sgt. Steeve Mathieu with the III Corps, the Osprey u8 performed remarkably and resolved the limited line-of-sight issues, providing a more stable connection as the Stryker traversed the dynamic terrain.



OSPREY™
u8



“As the Army continues to move towards a more technologically advanced, expeditionary force, the necessity to implement sophisticated, cutting-edge technologies continue to grow. Integrating technology such as the Kymeta terminal with the traditional military equipment demonstrates the potential of the Army’s future to improve operational flexibility on-the-move communications, while maintaining a low-profile and overall reduced communication footprint.”

Staff Sgt. Christopher R. Hill and Staff Sgt. Steeve Mathieu

Army Communicator, November 2023, P. 19 [Link]



OSPREY u8 SHOWCASED
ON A STRYKER VEHICLE.
Source: III Corps.

Considering its Low-SWaP (Size, Weight, and Power) form factor, the Kymeta terminal allowed for the installation of dual monitors, two voice over internet protocol (VoIP) phones, mouse and a keyboard, video, and mouse (KVM) switch. Additionally, the Osprey u8 provided Non-Secure Internet Protocol Router Network services available through CISCO AnyConnect VPN via Kymeta's Wi-Fi, highlighting its flexibility of operation and possibilities for interoperability.

Committed to delivering mission success, Kymeta enables the future of Military SATCOM now, empowering the Army of 2030 and beyond.



The Osprey u8 has the superior advantage of enabling network redundancy through multiple modems and with field-installable cartridges and modems. The terminal has an embedded iDirect 950 mp (TRANSEC-capable) and with the newest Kymeta release, the Osprey u8 hybrid-GEO-LEO also brings an embedded LEO modem.

KEY FEATURES



MULTI-ORBIT ON-THE-MOVE

Delivers GEO/LEO connectivity from one single terminal.



MULTI-NETWORK READY

Enables network redundancy through field installation of mission-specific cartridges and external modems.



EASE OF USE

Easy to deploy and to operate with auto-acquisition and tracking features.



AUTO-PACE READY

Supports configuration for auto-switch between embedded and external modems.



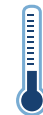
GNSS-DENIED OPERATIONS

Uses a wide range of receivers and location solutions to ensure resilient and continuous operation.



STEADY STATE POWER CONSUMPTION

Operates with native vehicle power systems.



LOW THERMAL SIGNATURE

Developed to be less detectable by possible infrared threats.



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