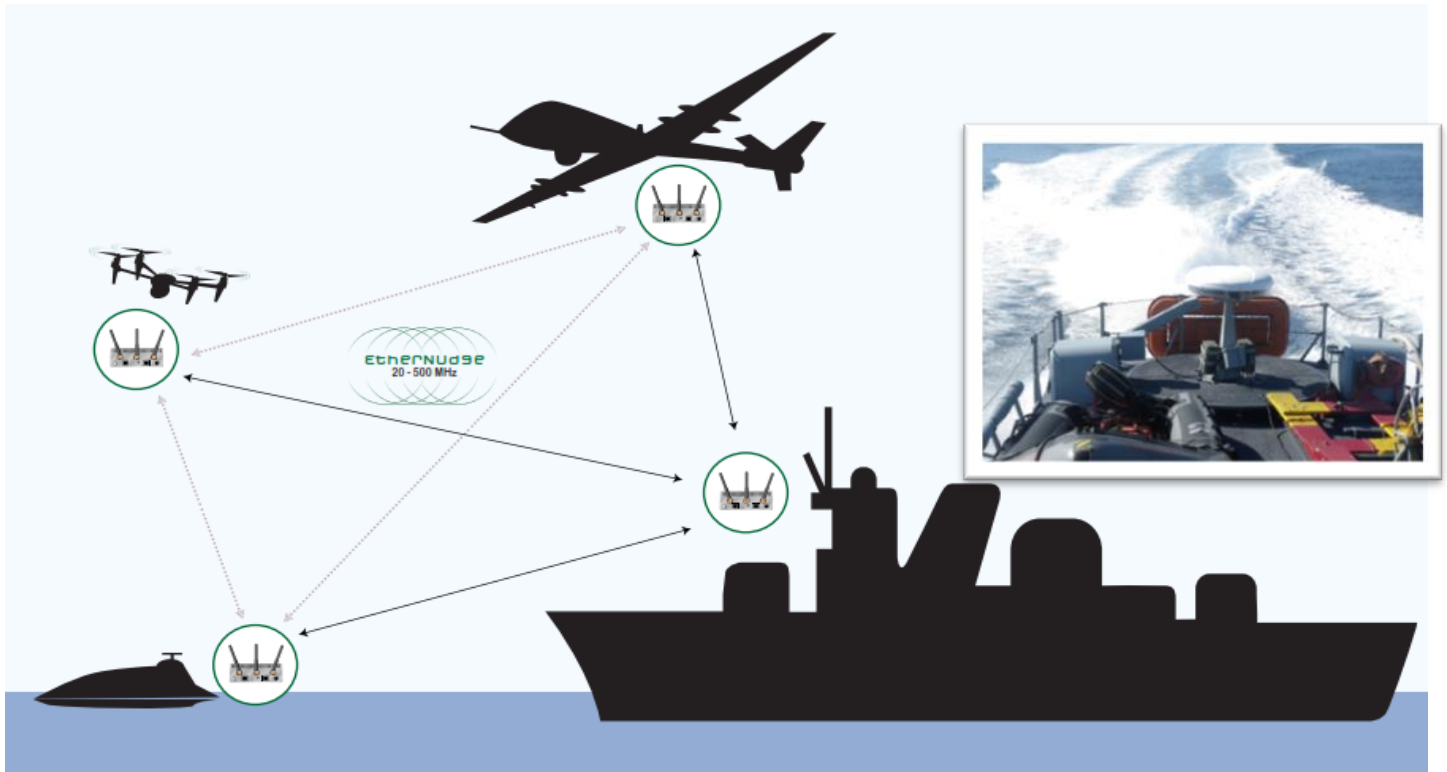


Flotilla Communications-on-the-Move (COTM)

EtherNudge is designed to solve multiple assignments engaging various vessels, both surface and airborne, all constantly moving in multiple directions and requiring stable communication channels under all weather conditions.

In the given scenario all connected EtherNudge devices create a “Super-Cell” of communication with wide ranges, beyond LOS over the horizon, of up to several 100 km. It allows for continuous operation of multiple unmanned elements, enabling video, data, voice in uni- or bi-directional traffic.



The “Super-Cell” is a LAN environment, in which the ethernet-line is being extended through the air, supporting all IP/LAN based applications without delay and with exceptional performance even without line-of-site (LOS) on rough seas.

Super-Cell (COFDM VHF)	BackHaul (KU)
The EtherNudge network adapts dynamically in real-time to actual channel characteristics	High speed backhaul at extremely long ranges, due to SAT application
Communications at variable frequencies, beyond the horizon without LOS	Highest performance of tracking terminal to the SAT to compensate for changes in position in 3D
Exceptional modulation performance – real-time optimization based on the physical conditions	
Dynamic Rx allocation time optimizes PtMP and MPtMP communication	
Application drives usage. Highly suitable for UAV/USV operator.	High latency makes it less suitable for remote UAV/USV operator.