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Drone Over Cellular
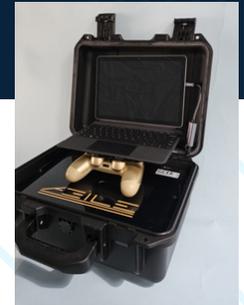
Drone Operations and Communications System

The AGILE Drone over cellular is a framework for operating remote unmanned vehicle and real-time data transmission. It lThe AGILE Drone over cellular framework facilitates remote operation of unmanned vehicles and enables real-time data transmission. It leverages open-source autopilot software and incorporates bonded, multi-channel cellular technology. This system facilitates the transmission of informational data and control commands between the vehicle and operator across unlimited distances, thereby surpassing conventional line-of-sight constraints.

Applications

- Monitoring solutions for the energy sector, encompassing utilities, oil, and gas
- Video Surveillance and Security
- Agricultural Monitoring
- Disaster Response
- Search and Rescue Operations

The Basics

- Hardware-agnostic
- Internalized GPS tracking
- Open-source autopilot
- Dual channel connectivity with space for two SIM cards
- Can be set up independently or as part of a network with other AGILE CORE systems

DRONE OVER LTE
BEYOND VISUAL LINE OF SIGHT

Command & Control over Unlimited Distance

Airframe / Peripherals / Sensors / Minimal LTE Comms Kit

LTE-Enabled GCS

The AGILE Drone over cellular system utilizes an open-source autopilot platform integrated with 5G cellular technology for communication purposes. This integration guarantees a dependable, uninterrupted connection between the vehicle and the control station, capitalizing on the global 5G/LTE infrastructure. Furthermore, the open-source nature of the autopilot software promotes ongoing development and customization, resulting in a highly adaptable system.

The system's capacity to function seamlessly over vast, unrestricted geographical areas, when combined with the remarkable adaptability and flexibility inherent in its software architecture, positions it as a pivotal instrument for achieving significant enhancements in operational efficiency, dramatically elevating safety protocols, and substantially reducing response times, thereby proving beneficial across a wide spectrum of diverse industrial sectors.