LTE-A MOBILE BASE STATION

The ULAK Mobile Base Station enables the rapid and effective establishment of a wireless communication network using LTE technology in areas where wireless communication infrastructure is absent or has become inoperable for any reason. Its satellite connectivity capability allows for the provision of LTE-based high-speed and high-capacity communication services even when terrestrial infrastructure is inaccessible.

The Mobile Base Station is utilized in various scenarios, such as disaster response, military operations, rural connectivity, and temporary events where establishing traditional communication infrastructure is challenging.

Our Mobile Base Station is an “all-in-one” solution that is easy to transport and install, featuring a “plug and play” design. It is specifically designed for scenarios where rapid installation and activation of communication services are essential. The product can be customized according to the environmental requirements of the application.

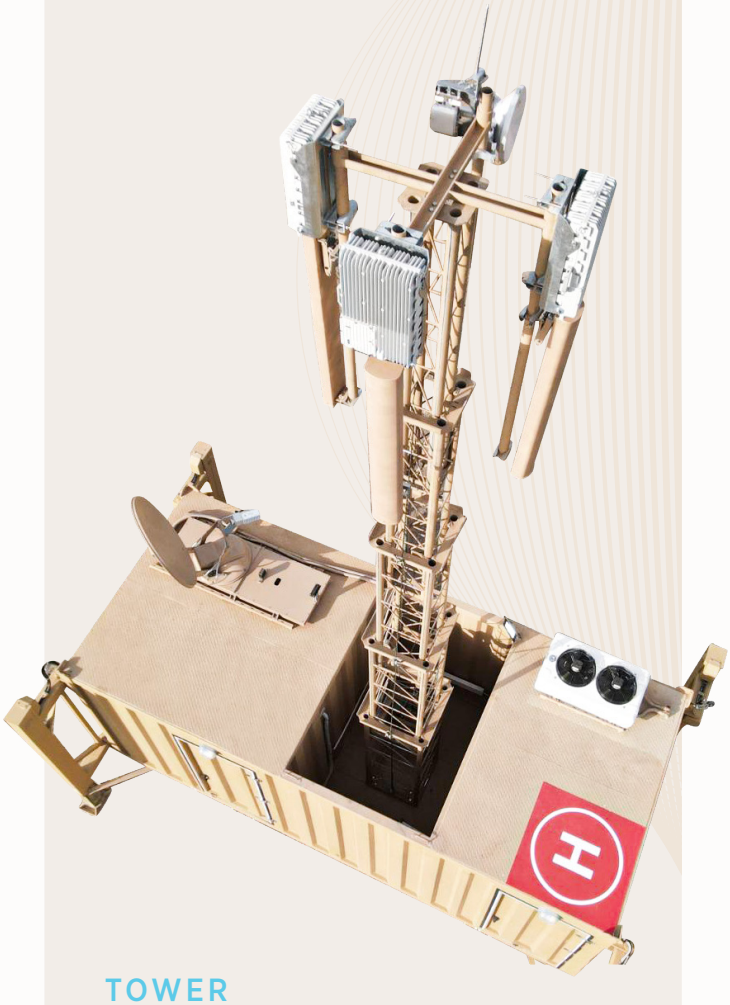
PRECISION AND FUNCTIONALITY

The mobile unit is designed with precision and functionality in mind, featuring a two-person living space, a dedicated server compartment, as well as generator and UPS systems. A tower mounted on the unit supports LTE antennas and a radio connection system, while an additional satellite dish and an automatic satellite tracking system ensure uninterrupted connectivity.

Moreover, the mobile station is equipped with an automatic satellite detection feature, providing rapid satellite connectivity at the deployment site.

MOBILE UNIT

The two-person living space within the mobile unit ensures that essential personnel have a comfortable and functional environment for extended missions. The server compartment is equipped to meet the processing demands of LTE base stations, contributing to the overall efficiency of the communication system. Power reliability is guaranteed through the inclusion of a generator and UPS systems, ensuring uninterrupted operation even in off-grid or remote locations. The coverage area can vary depending on the terrain conditions where the station is installed, but it can achieve an approximate coverage range of 1 to 10 km.



TOWER

The 12-meter tower accommodates LTE antennas and a radio connection system, expanding the communication access area. This height enhances signal coverage and facilitates communication in areas with challenging topography. Additionally, the combination of a satellite dish with an automatic satellite tracking system provides continuous and optimized satellite connectivity, enabling seamless transitions between satellite and terrestrial communication channels for the mobile unit.