

Hughes Cellular On-Demand Solutions

Hughes offers an ultra-small, completely virtualized 3GPP LTE core network to support tactical, cellular communications for manpacks, fixed site, land mobile, and airborne applications around the world. This light and energy-efficient LTE network core creates a cellular bubble in just minutes, meeting critical wireless connectivity requirements. With this microcellular technology, Hughes can provide agile, operational communications for resilient, time-sensitive, military, and disaster response missions. The cellular bubble can be connected to Beyond Line of Sight (BLoS) using Hughes high throughput satellite communications to backhaul the mobile traffic to the network. The high data rate BLoS connectivity is well-suited to enable man-to-man and manned-to-unmanned communications.



Hughes Cellular Mission Applications

- Remote cellular connectivity
- Commercial operations
- Sensor data exfiltration
- Aircraft-based service for ground operations
- Continuity of operations
- Disaster response communications
- Search and rescue

Technology Features

- All IP based-3GPP LTE Rel. 10
- 3GPP interfaces S1-MME, S1-u, S6a, S13, S11, S5, S10, S3/S4 and more
- LTE EPC, HSS, PCRF, and IMS (VoLTE)
- Remote monitoring and management
- Satellite backhaul options
- Credit card-sized form factor to Intel NUC Platform
- Private dedicated network with SIM cards & Encryption
- Works with commercial 4G LTE phones
- MME, S GW, PGW, HSS, PCRF and fully integrated management EMS
- 10 to 10k Users on single platform; up to 300K on server platform
- Interoperates with major OEM eNBs-LTE radio base stations.



Credit card-sized LTE core enables wireless connectivity from the air or on the ground.