

# Hughes Cellular On-Demand ManPack

Ideal for tactical missions, the Hughes Cellular On-Demand ManPack creates an independent LTE wireless network with a wide radius to keep teams connected to each other via smartphones and other devices. The Cellular ManPack offers an ultra-small, completely virtualized 3GPP LTE core network to deliver fully functional cellular communications, which can be deployed for operations around the world. The light and energy-efficient LTE network core creates a cellular and Wi-Fi bubble in just minutes to meet mission-critical wireless connectivity requirements. With the option to add satellite for backhaul, Hughes can provide an agile, turnkey communications solution for resilient, time-sensitive military and disaster response missions.



Full, Virtualized Cellular On-Demand Core



Cellular On-Demand ManPack

## Hughes Cellular Mission Applications

- Remote cellular and Wi-Fi 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, Roadmap to Rel. 12 and 13
- 3GPP interfaces S1-MME, S1-u, S6a, S13, S11, S5, S10, S3/S4, and more
- LTE EPC, HSS, PCRF, and IMS (VoLTE)
- Full network management with every core
- Remote monitoring and management capability
- Uses satellite or low bandwidth backhaul
- Small form factor—credit card-sized core
- Hardware independent and fully virtualized
- Private dedicated network
- Create your own SIM cards and encryption
- Works with commercial 4G LTE phones
- MME, S GW, PGW, HSS, PCRF, and fully integrated management EMS
- Full suite of IMS integrated with optional virtual component
- 10 to 10K users on single platform
- Up to 300K on server platform
- Battery-powered remote system
- Interoperates with major OEM eNBs-LTE radio base station