



# TACCELL

Autonomous 4G/5G Tactical  
Communication Network

ELK-1888





# TACCELL

## Autonomous Tactical Cellular Communication Network ELK-1888

TacCell (ELK-1888) provides ground forces with the capability to establish a fully autonomous, high-bandwidth, secure, 4G/5G communication network. Compact, modular and ruggedly constructed for ground-based operations, the innovative, patented system can be deployed from a backpack, vehicle, or aerial platform, including UAVs and drones, to ensure network coverage in all terrain types.

TacCell provides secure and reliable high-bandwidth communications for sharing large volumes of critical data in real time to support Internet of Military Things (IoMT) devices, handheld computers, weapons systems, and advanced sensors such as radars, SIGINT, and electro-optics. TacCell comprises 4G/5G cellular Network In a Box (NIBs) nodes that can operate independently or as a unique decentralized cellular mesh network (CellMesh™). In mesh network mode, the NIB nodes automatically interconnect to create a broadband, low-latency network with no single point of failure. The solution will automatically monitor the network status and adjust the networking mode (independent or interconnected) according to the prevailing conditions. Each user can be served by any node and handover between nodes is performed smoothly. NIBs can also interconnect with other communications systems using a backhaul interface (IP, cellular or SDR). The network is resistant to jamming and provides end-to-end cybersecurity.

TacCell's intelligent Command and Control (C2) management system manages all the communication systems individually and as an entire network and provides network-centric situational awareness. TacCell is field-proven and operational with military forces worldwide. For information regarding autonomous networks for police, public safety and first responders, please refer to SecureCell.



**TacMAN**  
On-the-Move NIB  
for vehicular and  
manpack form



**AirTM Aerial**  
NIB for aerial  
deployment and  
network extension



**TacCell Macro**  
On the Halt –  
deployable solution

