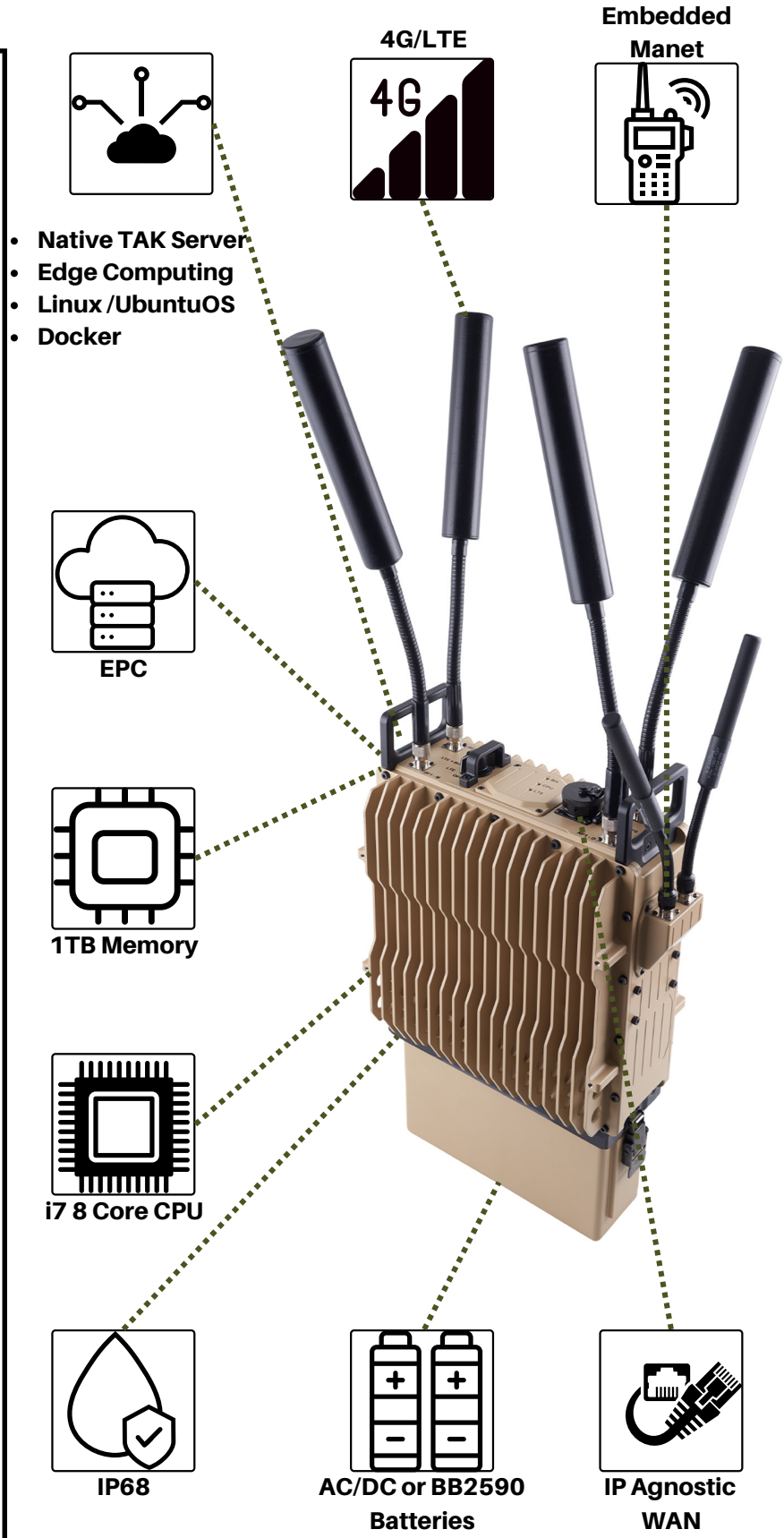
Banshee Tactical Radio (BTR)

Any network, Any sensor.

Battlefield of Things (BoT)

Introducing the BTR, a private manpack IoT communications node with embedded MANET, LTE and Edge Computer.

- A completely mobile communications network, 4G/LTE, embedded Mesh radio.
- No more mobility restrictions.
- Lessen data congestion.
- LIGHTWEIGHT at only 10kg total.
- No more trailers or tents required.
- Connect up to 250 end users in a few minutes, with a high speed, low latency 4G/LTE network.
- CODAN DTC's Mesh Ultra Waveform.
- 300Mbps LTE throughput/ 87Mbps Mesh throughput
- 1km LTE range and up to 7km MANET backhaul
- GPS
- Native TAK server
- and more.



BANSHEE TACTICAL RADIO (BTR)
SPECIFICATIONS

MAN-PORTABLE

Banshee enhances deployability and improves survivability by traveling with forces. Network coverage extends to up to 1 km radius per node. Banshee sustains a **fully decentralized, stealthy, never offline network**.

INFINITELY SCALABLE NETWORK

There is no theoretical limit to the number of nodes that form the Banshee network. The network self-creates a massively meshed hub-and-spoke architecture. Traffic routing and device connection handoff is handled automatically and dynamically, maintaining connectivity among nodes and UE while in motion.

ALWAYS ON

When the power is on, the network is on. Banshee nodes are rated for continuous operation. The network can be operated, administered, and maintained with no downtime.

COMPUTING AT THE EDGE

The Banshee battlefield edge network combines communication, computing, and video encoding in a single device. Banshee has an onboard Linux-based processor and storage. Banshee has an integrated, native TAK server and can be configured to host additional VMs for other applications and storage needs. Banshee brings compute resources straight to the tactical edge to support combat applications.

CAPABILITIES

- Up to 256 end point connections per node
- Up to 1 km radius LTE coverage area per node
- Up to 300 Mbps download / 100 Mbps upload

FREQUENCIES AVAILABLE

- LTE: 700 MHz–6 GHz, Bands: 2/66, 1/3, 3/7, 48 CBRS
- MANET Backhaul: L, S, High C, Low C
- Band agile for frequency deconfliction and to evade EW

POWER

- 20-40 VDC (dual rechargeable BA-2590)
- Max 75W, Typical 50W

ENCRYPTION

- Standard: 128 AES
- Optional: Double-wrapped 256 AES, compatible with NSA Type 1 encryptors, CSfC solutions

PHYSICAL

- Backpack/man-portable form factor
- Dimensions: 11.5W x 17.2H x 4.5D in (292W x 437H x 114W mm)
- Weight: Approx. 17 lbs (7.71 kg) including batteries, depending on option selections

ENVIRONMENTAL

- Operating: -40°F to +131°F (-40°C to +55°C)
- Storage: -40°F to +158°F (-40°C to +70°C)
- IP68 water and sand/dust resistant

BANSHEE MOBILE RADIO (BMR) VARIANT

- Up to 800 end point connections per node
- Up to 7 km radius LTE coverage area per node
- Up to 300 Mbps download / 100 Mbps upload
- Onboard TAK processor
- 90-264 VAC, DC compatible option
- 24.25 lb (11 kg) vehicle-mountable form factor for networking on the move