Tactical Cube

The Portable private cellular network for mission critical applications

athonet

a Hewlett Packard Enterprise acquisition

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The Portable private network for mission critical application

The Tactical Cube is a transportable solution, realised by Athonet, a Hewlett Packard Enterprise acquisition, that includes a radio (RAN) and mobile core. The mobile core is hosted on off-the-shelf servers or on Athonet EX-BOX server providing and the radio acts as a base transceiver station with IP65 protection. Two servers can be added for high availability and redundancy.

This solution creates a dedicated network that can run with or without external connections covering approximately 10 kilometers.

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Dimensions	90x60x70 cm
Weight without batteries and antenna	110 kg
Operation Temperature	-10° to 55° C
Material chassis	Rugged case on wheels
Ingress Protection	IP65
CPU	Intel Xeon D-1559
System memory	64 GB
Storage	2 TB
Ethernet	1x1GbE (RJ45) + 1x1GbE (optical fiber)
Wifi	2,4+5 GHz
Radio	up to 3 cells 40W+40W 2x2 MIMO
Bandwidth	3, 5, 10, 15, 20MHz
Max Active Users	200 (10MHz)
Max Throughput	DL 150Mbps, UL 75Mbps (20MHz FDD configuration)

1 **Portable and standalone**
LTE/5G network solution that is mobile and can operate independent

2 **Public safety support**
Mission Critical Push-To-Talk (PTT), IP based multimedia service (IMS), Evolved Multimedia Broadcast Multicast System (eMBMS), 4 hours of battery function

3 **Centralized mobile core (EPC)**
Proven roaming capability to national MNOs

4 **MVNO ready**
Public safety for mobile virtual network operator, field-proven

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