



# SPARTACUS ECHO is a low cost EW Deception capability.

Designed to be easy to use, robust, lightweight and rapidly deployed to create confusion and clutter to the adversary.

**SPARTACUS ECHO is an Electronic Warfare (EW) Deception Capability that mimics realistic Radio Frequency (RF) signatures to:**

- confuse/ clutter/ hamper/ delay/add doubt
- duplicate and imitate an existing capability
- require adversary to use more sensors and better analysis
- be used in operational and training environments.
- allow deployment e.g. unattended, partner force and robotic
- add to an existing HQ to make it appear larger or of a different capability
- protect high value targets (HVT) by replicating HVTs to increase 'sensor to effector'
- (psychological operations) deliver dis-information
- represent static Command Posts, events such as obstacle crossings or units in defence
- reduce the need for GFE to represent proprietary waveforms, reduce size, weight, power and cost (ECHO only)
- provides a laptop hosted playbook tool set that lets the user
  - design, build, manage and deploy playbooks to local and remote agents
  - import playbooks from other systems or synthetic feeds
  - virtual training output or allow the user to build a bespoke playbook

- LOW COST**
- LIGHTWEIGHT**
- EASE OF USE**
- ROBUST**
- SECURE**
- DEPLOYABLE**
- CONTROL REMOTELY**



**CONFUSE**



**CLUTTER**



**DELAY**



**DUPLICATE**



**IMITATE**



**PROTECT**

Contact us

[info@phoenixc4i.com](mailto:info@phoenixc4i.com)  
 [www.phoenixc4i.com](http://www.phoenixc4i.com)





## SPARTACUS ECHO

Size 600mm x 300mm x 200mm

Weight 15kg

Battery 18V DC

Audio Clips 9999 (Uploaded locally)

Playbook Capacity 3 locally (unlimited in cloud)

Run time > 6hrs

SDR ADALM PLUTO (325MHz – 3.8GHz)

Amplifier – Preamp Mini Circuits ZKL 1R5+ (16dBm)

Amplifier – Post Amp Mini Circuits ZHL 28S+ (30dBm)

DC Converter 12v DC input (Output – 24v, 12v, 5v)

Impedance 50 Ohms

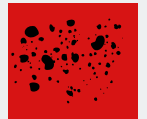
Power Output Nominal 1W (Option: 2W)

## KEY FEATURES

- Connects to most PTT Radios
- Radio delivers RF emissions so representative
- Manual and remote control
- Scalable: Battlegroup CP upscaled to Brigade
- Multiple radio interface cables – rapid deployment



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PROTECT

Note: Due to continuous development, specifications are subject to change without notice.

### Collaborating with PhoenixC4i Limited

PhoenixC4 Limited is a micro-SME with the primary purpose of creating simple, cost effective and innovative solutions to key challenges, through our cutting-edge R&D. PhoenixC4i offers solutions to defence and industry challenges, both in the UK and worldwide. We have a wide network of subject matter experts and scientists to build the right team to meet each challenge. We are a micro-SME which allows us to be flexible and agile to meet the customers' needs without the burden of process heavy procedures.

[www.phoenixC4i.com](http://www.phoenixC4i.com)

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### For further information please contact

PhoenixC4i  
Pure Offices  
Waterwells Business Park  
Gloucester  
GL2 2AT  
United Kingdom

Telephone: +44 (0)161 327 0269  
email: [info@phoenixc4i.com](mailto:info@phoenixc4i.com)

