



ROKE

# CC1 (S25)

AI-Enabled  
Tactical End User Device



Changing Worlds

# Background

People, not equipment, are the critical component in all operations. We understand the significant physical and cognitive burden faced by our war-fighters and know how the application of technology can help reduce both of these factors.

Commercial technology is becoming common place in modern theatres of operation. It provides the opportunity to leverage investments made by large technology companies that can be adapted and subsequently adopted by war-fighters.

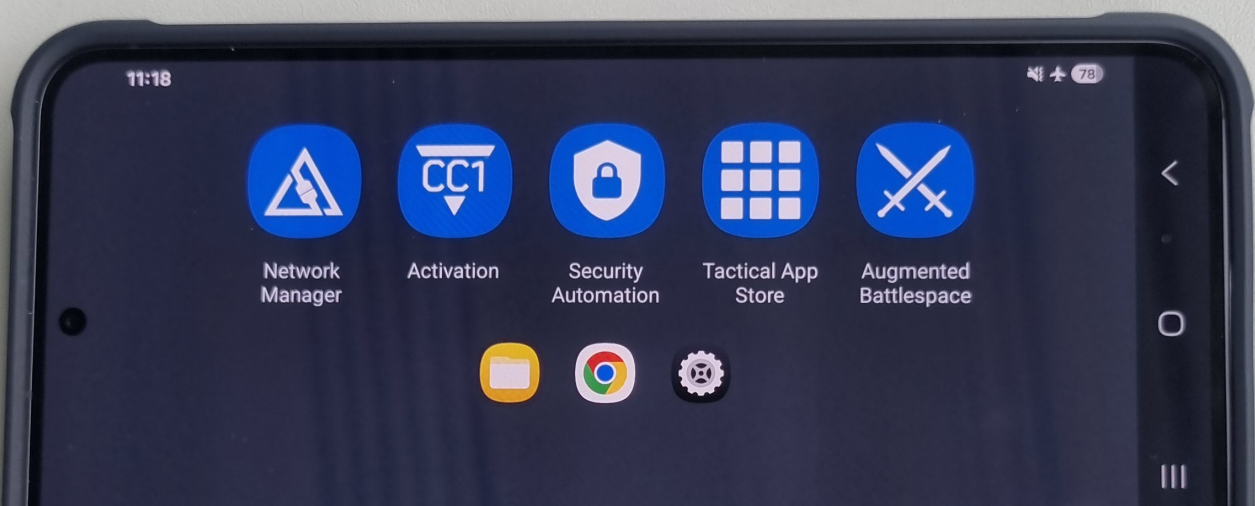
Nothing encapsulates this more than recent advances in AI enabling capabilities within smartphones that are now mission ready and can be deployed to augment existing situational awareness capabilities, enhancing survivability and lethality at the tactical edge.

Operations can be conducted with either limited or no user input, exploiting the platform's processing capacity to leverage advances in Artificial Intelligence and Machine Learning. Tactical smartphones enable the hosting of Battle Management Applications(BMA) which provide user interfaces that allow operators to comprehend the common operating picture.

They are re-configurable to support the next mission with the benefit of being hardware agnostic enabling evergreen development. CC1 (S25) is the first AI Enabled Tactical End User Device(EUD)that still offers secure, networked, intuitive and supported capability in the field, but now is further enhanced to deliver battle winning autonomy, dynamic planning and responsiveness at the tactical edge.

CC1 provides a lightweight solution that meets the demand for soldier worn sensors and systems. In this way, devices can present key operational information to the deployed operator where it can be displayed, aggregated and shared within the team and beyond.

Based on the flagship Samsung Galaxy S25 smartphone, CC1 has been engineered through the partnership of Roke and Samsung, to meet the demanding requirements of the tactical environment. It's scalable, secure, and underpinned by open standards and architectures to drive modernisation in military operations through the adoption and augmentation of powerful AI technologies.



# Specifications

|                                       |  |  |
|---------------------------------------|--|--|
| <b>Device</b>                         | <b>Samsung Galaxy S25</b>  | <b>Colour</b> - Black  |
| <b>Chipset</b>                        | <b>Qualcomm SM8750-AB Snapdragon 8 Elite (3 nm)</b>  |  |
| <b>Processor</b>                      | <b>CPU Type</b> - Octa-Core  | <b>GPU Type</b> - Adreno 830   |
| <b>Display</b>                        | <b>Size</b><br>6.2 inches, 94.4 cm <sup>2</sup><br>(~91.1% screen-to-body ratio)   | <b>Resolution</b><br>1080 x 2340 pixels<br>19.5:9 ratio (~416 ppi density) |
| <b>Connectivity</b>                   | <b>USB Interface</b> - USB Type-C  | <b>USB Version</b> - USB 3.2   |
| <b>Operating System/Security</b>      | <b>Android 15</b>  | <b>Samsung Knox API v3.9 or higher</b>                                     |
| <b>Physical Specification</b>         | <b>Dimension (HxWxD)</b><br>146.9 x 70.5 x 7.2 mm<br>(5.78 x 2.78 x 0.28 in)   | <b>Weight</b><br>162 g (5.71 oz)   |
| <b>Battery</b>                        | <b>Battery Capacity (mAh, Typical)</b> - 4000  |  |
| <b>Hardware</b>                       | <b>OEM SKU: SM-S901BZKGEUB</b>   | <b>IP68 dust/water resistant (up to 1.5m for 30 minutes)</b>               |
| <b>Enabling Features</b>              | <p>Tactical App Store - Mission critical content deployment to the tactical edge; Tactical Ecosystem portal</p> <p>Augmented Battlespace - Autonomy, enhancing survivability and lethality at the tactical edge</p> <p>Tactical network configuration and management</p> <p>Selective inhibition of all RF sources to support EMCOM</p> <p>Open API for tactical features to enable 3rd party development</p> <p>Configurable device button and screen controls, including enhanced sensitivity for gloved use</p> |  |
| <b>Security Enhancements</b>          | <p>Ability to fully disable all RF capability (BT, WiFi Cellular) including E911 suppression</p> <p>Event triggered data and device security when under threat</p> <p>Network interface (WiFi, BT) whitelisting and firewalls</p>  |  |
| <b>Mobile Device Management (MDM)</b> | <p>The CC1 Management Laptop provides the user with the ability to configure and apply security and user policies and the 'Tactical App' Hosting Environment to meet changing tactical environments and re-provision to recover following security events.</p>   |  |

Specification features are subject to change.

# Specifications

## Accessories

Ruggedised smartphone cases with mounts for Samsung Galaxy S25 - Contact Roke for details. Cables and tactical USB hubs to integrate tactical radio equipment and other ancillaries - Information available on request.

## Software Platform

Galaxy AI ML and generative features

Open Tactical API v1.x providing programmatic access to:

- Static & DHCP configuration for all network interfaces
- Per network interface advanced firewall
- EMCON RF transmit inhibitor
- EMCON light reduction

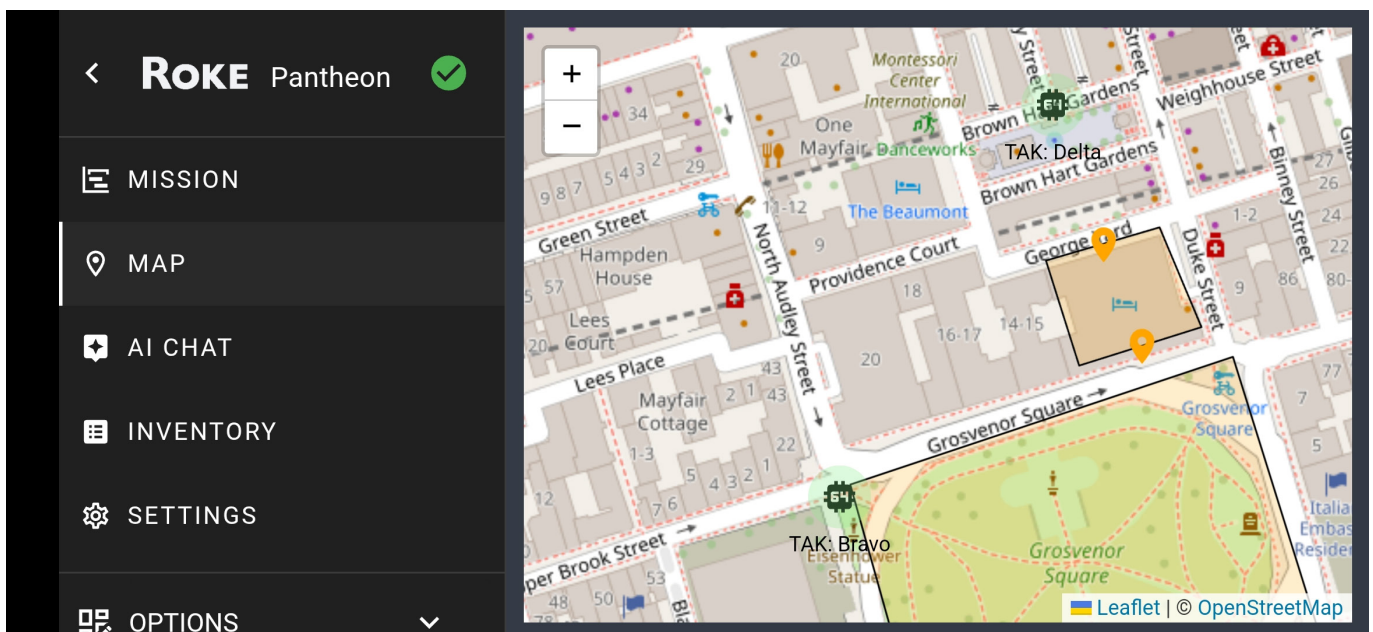
## Compatibility

Compatible with the full Google Android eco-system of apps

Supports integration of third party MDM solutions in the event that additional controls are required over and above the CC1 security and user policy tool

Support for military and commercial data radios via USB CDC ECM, ASIX and RNDIS Host mode drivers

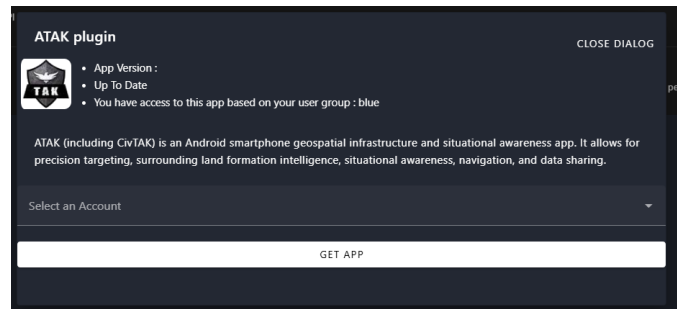
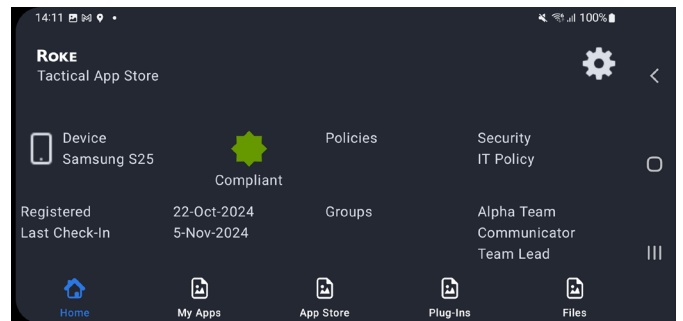
Specification features are subject to change.



# Tactical Enablers

## Tactical App Store

The system enables mission-critical content deployment to the tactical edge by delivering new mission software efficiently and securely. It presents assured baselines and supporting information to deployed users, ensuring they have reliable and up-to-date resources. Additionally, the system selectively deploys software and supporting information onto end-user devices, providing targeted and effective support for mission objectives.







## Tactical Platform

- App Storefront
- App & Data Library
- App Hosting Environment
- App Launcher
- Tactical Mobile Device Management

## Software & Application Services

- Test & Reference Service
- Test Tools
- Configuration Management

| App ID | App Name    | App Version | Tags                       | Actions   |
|--------|-------------|-------------|----------------------------|---|
| 1      | ATAK plugin | 1.7.6       | [ 'offline' ]              |   |
| 2      | Spot API    | 1.0         | [ 'navigation', 'secure' ] |   |

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# Tactical Enablers

## Augmented Battlespace

Consolidation of AI enabled applications and services targeted at augmenting existing situational awareness capabilities, enhancing survivability and lethality at the tactical edge.

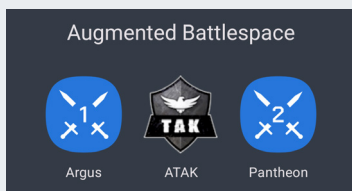
**Pantheon** – Natural Language mission planning and asset coordination; Hands free reporting; BMA integration.

**Argus** – AI Classification of objects of interest for higher level analysis (i.e. face recognition); Cross-cueing of low power, expendable sensors.

Built on the class-leading Samsung Galaxy S25 featuring Galaxy AI technology.

Large Language Model (LLM), Mission planning, SAPIENT ASM and Object classification for high level analysis.

Combining Roke's tactical smartphone and AI & autonomy expertise to delivering battle winning autonomy, dynamic planning & responsiveness at the tactical edge, increasing survivability and lethality.

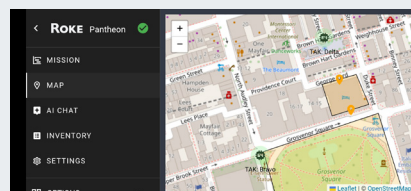
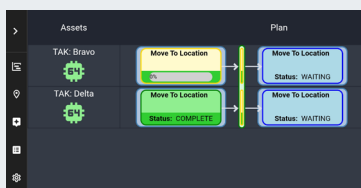


### TACTICAL APPS

Mission critical content deployment to the tactical edge.

### SAPIENT ASM

Automated asset coordination at the tactical edge.

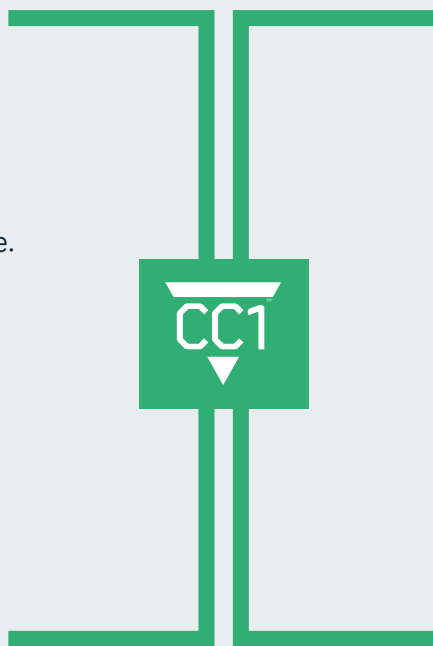
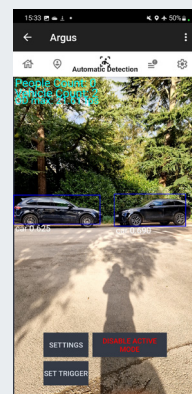


### MISSION LLM

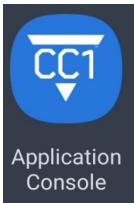
PANTHEON LLM to natural language processing and mission planning at the tactical edge.

### CLASSIFIER

Argus automated ML object classification enabling higher level analysis at the tactical edge.



# Core Applications



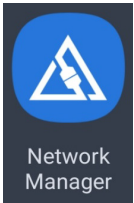
## Usability

Meeting the Human Factors Integration needs of the specialist End User community through application console and making User Security features readily accessible.



## Security

Working with Samsung Knox security, we delivered advanced and intuitive 'Event Based' & 'Manual' End User Device security.



## Networking

Working with Samsung to enable to advanced networking features and presenting an intuitive interface to End Users.

## Deployability

Intuitive Knox Licence, User Policy, Security Policy, App & Data deployment.



# How we can help you

Your information and information systems are key weapons in the modern battlespace. Properly designed, they allow you to get inside and dislocate your adversary's decision-making process, while simultaneously strengthening your own. Open, evergreen solutions seamlessly integrate information sources, connecting the tactical edge with the enterprise to enable the development of campaigns that manoeuvre minds, as well as military resources. We offer comprehensive integrated logistic support

services for our products, from creating technical documentation to delivering bespoke training sessions, enabling the equipment we provide to achieve a high level of availability and remain operational to full design limits.

Please contact [info@roke.co.uk](mailto:info@roke.co.uk) to find out how the new CC1, the first AI-Enabled Tactical End User Device can help you control the battlespace.





# ROKE

We believe in improving the world through innovation.  
We do it by bringing the physical and digital together  
in ways that revolutionise industries.

That's why we've fostered an environment where some of the world's finest minds have the freedom, support and trust to succeed.

Roke is a team of curious and deeply technical engineers dedicated to safely unlocking the economic and societal potential of connected real-world assets. Our 60 year heritage and deep knowledge in sensors, communications, cyber and AI means our people are uniquely placed to combine and apply these technologies in ways that keep people safe whilst unlocking value. For our clients, we're a trusted partner that welcomes any problem confident that our consulting, research, innovation and product development will help them revolutionise and improve their world.

If you're bringing the physical and digital worlds together, we'd love to talk.

Roke Manor Research Ltd  
Romsey, Hampshire, SO51 0ZN, UK  
T: +44 (0)1794 833000  
info@roke.co.uk www.roke.co.uk

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