SCORPION
SECURE FIELD PROGRAMMING DEVICE (SCP1)

OVERVIEW

The *Scorpion (SCP1)* is a secure, field-ready device engineered to rapidly and safely re-profile Sat-Com Leopard 1 and Cheetah 3 Combat Net Radios (CNR) in challenging environments.

Efficient Radio Re-profiling

Traditionally, radio profiling (programming all parameters) requires a PC, laptop, or tablet. However, in battlefield conditions, these devices may not always be accessible.

The SCP1 addresses this issue by enabling secure re-profiling directly in the field, without the need for a display device. New profiles created using the Sat-Com Radio Configuration Application can be easily uploaded to the SCP1. Once uploaded, the SCP1 can be distributed to signalers, technical staff, or operational teams. With minimal training, they can securely update the field deployed CNRs.

Simple and Secure Profiling Process

Re-profiling a CNR with the SCP1 is quick, straightforward, and requires only a few simple steps. The SCP1 is powered by the CNR itself, and once connected, the user authenticates the device. After authentication, the SCP1 securely transfers and decrypts the necessary files, overwriting old data while preserving any existing information on the radio that is not included in the SCP1's profile (such as pre-existing radio channels). This entire process is fast and designed to be easy for field operators, requiring just the push of a button.

SCP1 Security

The SCP1 ensures top-level security with AES256 encryption for all stored files. These files can only be accessed and authenticated by compatible CNR equipment. If the SCP1 falls into unauthorized hands, it is rendered completely useless—its information is protected from hacking, extraction, or decryption.

Zeroising the SCP1

To securely wipe the SCP1, simply hold the button until the indicator flashes green, then repeatedly press the button until the red light appears, confirming that the device has been zeroised.

Comprehensive Re-profiling Capabilities

The SCP1 can re-profile CNRs with the following parameters:

- Radio Channels
- Radio Address Book (Call Signs)
- Pre-defined Text Messages
- ALE Configuration (3G-ALE)
- Encryption Keys (COMSEC)
- Hopping Keys (TRANSEC)

Key Benefits of the Scorpion SCP1:

- Rapid Re-programming: Enables swift re-profiling or mission plan updates.
- Reduced Travel Requirements: Eliminates the need for highly trained signalers to travel long distances.
- Secure Distribution: AES256 encryption ensures safe and secure file transfers.
- User-friendly: Simple, efficient, and designed for easy field use without extensive training.

SPECIFICATIONS	DETAIL
Supply Voltage (nom)	12V
Max Current	<200mA
Data Capacity	250KB
Data Rate (Baud)	115200 bps
Connector to Radio	Fischer 27Pin
Connector to PC	USB2 - USB Mini-5
Indication / Display	Red/Green LED
Control	Single Button
Standby Battery	3V Lithium.
Material	Nylatron
Weight	200g
Size	140 (l) x 42 (w) x 42 (d) mm
Dust Caps:	Both Sides
Operating Temperature	-20°C > +50 °C
Submersion	IP66