UGX QUADRA
Portable Dual GSM/ Dual UMTS Firewall and Analysis Tool

The cellXion range of GX & UGX Cellular Intercept, Firewall & Analysis products are designed to provide Law Enforcement, Security Services and Military officers with a comprehensive set of tools to combat the growing use of mobile communications technology in crime and terrorism.

KEY FEATURES

- Compact portable device designed for simple deployment in a rucksack or sports bag and supplied with an Android smart phone controller (or optional Windows Notebook pc).

- Contains two fully functional commercial grade GSM (900/1800MHz or 850/1900, 200mW) BTS transceivers and two UMTS (2100MHz, 20mWav) Node B transceivers with excellent RF performance in high multi-path environments.

- The transceivers are independently configurable for all network parameters, and can transmit between 0.1mW and maximum power in 2dB steps.

- Built-in 'environment monitor' to assess the number of networks in an area, their respective configurations, and provide information to optimize user configuration of the BTS transceiver modules.

- Comprehensive identification of IMSI, IMEI and TMSI information with dynamic control capability including comprehensive denial of service.

- Simultaneous high speed acquisition of handsets (up to 800 per minute), across up to four networks.

- The optional 'In Network Calling' allows calls to be made within the UGX system (GSM only).

- cellXion 'Feels Like' function uses BCCH manipulation to give a virtual power effect of up to several hundred watts.

- Comprehensive mySQL database featuring handsets cross-referenced against IMEI, and networks against PLMN.

- The unique cellXion software client and GUI (graphical user interface) is consistent across the entire range of cellXion GX & UGX cellular intercept products.

- Optional UGX QUADRA Power Amplifier for vehicle fitting to provides increased power capability to 20W per GSM transceiver channel and 3.2W CPICH for UMTS channels.

- Optional Covert Call (TK) software application to provide a covert call capability to lock a target handset for direction finding using the cellXion MSL or other suitable DF systems.

- Optional Measurement Reports (MR) software application to provide handset geo-location and a mapping interface using timing advance, RxLev & RxQal measurement.
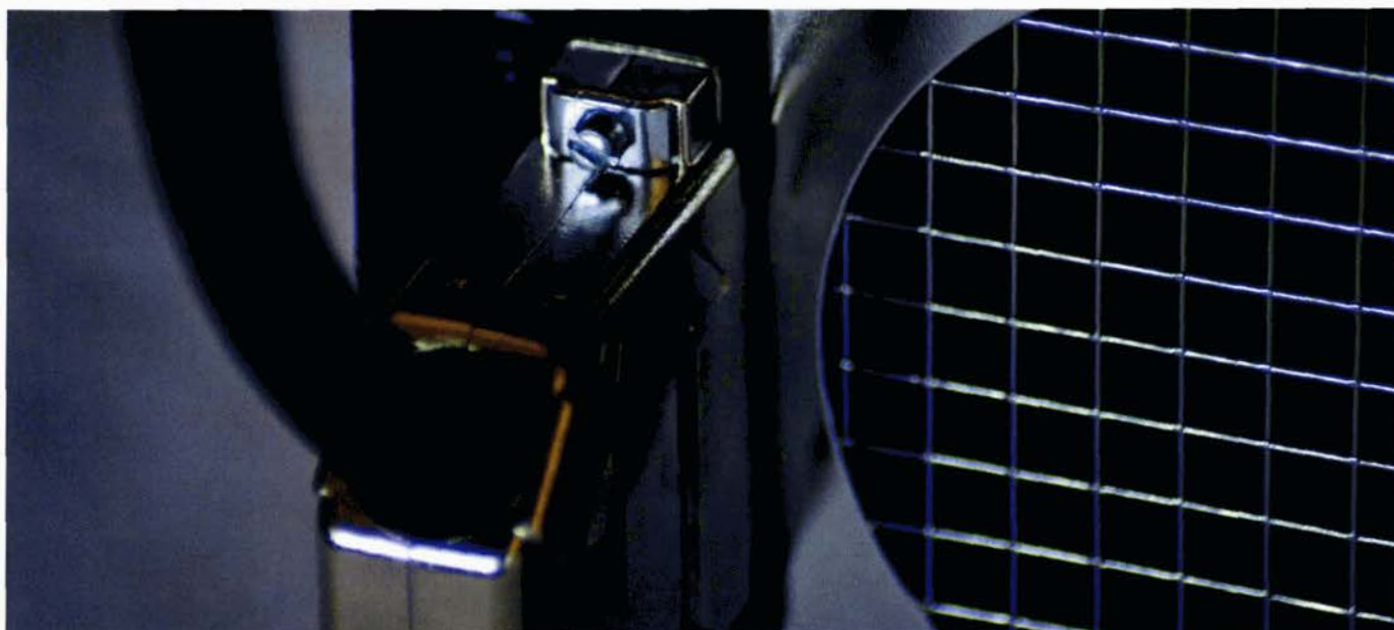
SPECIFICATION

- Dimensions: W257mm x D300mm x H134.5mm
- Weight: 6.5Kg
- Two 200mW GSM transceivers (900MHz/1800MHz)
- Two 20mW (average) UMTS transceivers (2100MHz)
- Power: 12-32V DC or mains via an AC adapter
- 110V or 220V ac mains power supply included
- Two 12Vdc batteries supplied
- Optional power amplifier runs off 12-32Vdc (24v recommended) or mains ac supply
- CPICH Transmit Power Control in 2dB steps down to 320mW
- 3GPP R5 Compliance (Local Area Cell TS25.104/V6.8.0)
- Commercial Grade hardware
- HCS Priority makes cell more attractive to UEs
- Legitimate 3G identity acquisition without GSM mode
- Transmit Power Control in 2dB steps down to 130mW
- GSM05.05 Receiver Compliance

- 'Feels Like' function makes cell more attractive to UEs
- Each transceiver independently configurable
- Heat dependent fan assisted cooling
- Integrated controller with embedded Linux OS
- Controls up to ten transceivers (any combination; GSM/UMTS/CDMA)
- Integrated 802.11b/g Wireless Router
- Internet facing firewall for remote client operation and remote support
- Web server provides software for Client PCs
- Web interface supports software updates for all modules

ALTERNATIVE CONFIGURATION

- Also available in 850/1900 MHz GSM and 850/900/1900 MHz UMTS
- Compatible with various Direction Finding (DF) systems

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