UGX Series 330

Transportable Dual GSM/ Triple 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 device integrated into custom 1550 Pelicase, capable of operation in Vehicle or a static location.

- Contains two fully functional commercial grade GSM (900/1800MHz or 850/1900, 20W) BTS transceivers and any combination of up to three UMTS 2100MHz, 3.2W) Node B transceivers.

- 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 1500 per minute), across up to five 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 thousand watts.

- Excellent RF performance in high multi-path environments.

- Each transceiver is independently configurable for all network parameters, and can transmit between 130mW and it's maximum power in 2dB steps.

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

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Optional add-on
UGX Series 400

Slave unit with the capability of up to 3 transceivers on two different UMTS channels (850, 900, 1900, 2100MHz)

- 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.

- Full support for GPS logging.

- Downloadable Java Client for use on alternative PC.

- Downloadable Android client for use on Android smart phone.

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

- Built-in 802.11 Wireless Access point supporting full remote control. The communications protocol is proprietary and self-optimises to accommodate the bandwidth available.

- Uplink port for connection to a WAN facilitating remote diagnostics and simple software upgrading.

- Measurement reporting and full integration of DF equipment to facilitate a one-stop solution to target acquisition and geo-location.

Power output specification

The OPTIMA and 330 series are (per NodeB);

- CPICH: 32dBm / 1.6W

- Average: 35dBm / 3.2W

- Peak: 42dBm / 16W

The UMTS output power is checked against ETSI TS25.141 Test Model 1 for linearity and quality, measurements made on a R&S CMU300 cellular test set.

SPECIFICATION

- Dimensions: W428mm x D524mm x H206mm

- Weight: 19.5kg

- Two GSM (1 x 900/1 x 1800) transceivers

- Up to three UMTS 2100MHz transceivers

- Can be powered by vehicle battery, 24-32V DC (24Vdc recommended), or mains via an AC adaptor.

- Transmit Power Control in 2dB steps down to 130mW

- GSM05.05 Receiver Compliance

- 'Feels Like' function makes cell more attractive to UEs

- 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

- Each transceiver independently configurable

- Robust peli-case enclosure

- Easy access side panels

- Heat dependent fan assisted cooling

- 110v or 220V ac mains power supply included

- 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 GSM850/1900 variant [USA]

- Compatible with various Direction Finding (DF) equipment for enhanced geo-location capability