



# ECM608-G918

## Electronic Countermeasures Unit

The ECM608-G918 is a small portable unit that is designed to secure areas of up to a 1002 m direction. ECM608's radiating power can be adapted to local propagation conditions and type of antenna used for its application.

### Configuration

Connect your ECM608 via Mini-USB cable to your PC. The ECM608 application allows you to set it up for your task. You can select blocking frequency range, RF output power and remote control. On "save" the actual configuration is stored inside your ECM608 and used on every power on.



### Operation

Power your ECM608 via DC connector (7 to 18V) or USB (5V). It loads the stored configuration, calibrates and operates within milliseconds. Two LED show current operation status. The green LED (DC) indicates power supplied and internal status. The blue LED (RF) follows RF output. It alights whenever an RF signal is generated.

### Antaenas-Transmitter 1 (internal and external)

The standard unit comes fitted with an antenna connector for an external antenna and a dual internal directional patch antenna (tuned for UMTS downlink frequencies and Bluetooth / WiFi frequencies).

Internal antennas provide approx 8dBi of gain giving an ERP of approximately 0.38watts. The external SMA connector can be selected as an alternative to the internal antennas by software command .

### Key Features

- > Covers GSM850,GSM900,UMTS 900, GSM1800, LTE1800, GSM1900, UMTS2100, Bluetooth and WIFI
- > Efficient block of 3G communication for the whole UMTS band or any selected network operators
- > Wi-Fi Blocking-entire band or selected Channels (1 -14)
- > Bluetooth Blocking
- > Task configuration via PC application (USB port)
- > Bidirectional remote control (USB, RS232, TTL)

Transmitters 2 and 3 are multiplexed via SMA 2.Only external antenna option available at present. Stubby antenna supplied.

### Operating Range

The main factor affecting the range of the unit is the proximity and power of the base station / mast to which the phone is registered. Typical range is 10 – 20 metres using an external small omni-directional antenna. Internal directional antennas allow focusing of the signal into more specific areas and can increase the effective range of the unit. ERP is increased to approx 380mW.

\*The exact range depends on a variety of factors such distance to a serving base station (Mast), its radiating power and local propagation.

### Remote Control

Beside a full control via USB, your ECM608 can be controlled or can control via remote connection. A 3.5mm stereo jack plug (TTL) contains TTL in/out. The 2.5mm stereo jack plug (RS232) below supplies full serial communication. This allows an easy integration into an ECM system as responsive/reactive jammer.



# Technical Specifications

## RF Output

RF output power:	-40 dBm (0.1µW) to 20 dBm (100 mW) in 1dB steps
Modulation speed:	auto or setup (1 to 4)
Spurious outputs:	< 40 dBc

## Main Board –Single transmitter

Frequency range-TX1 :	1900 to 2500 MHz, 0 to 85 MHz span
UMTS 2100-TX1:	2110-2170 MHz (downlink; band I, IV, X) or 1920-1980 MHz (uplink; band I) (entire band or sub range)
Bluetooth-TX1 :	2402 – 2480 MHz
WiFi (802.11)-TX1 :	2400 – 2483.5 MHz (entire band or selected channels from 1-14)

## Option Board – Dual Multiplexed transmitters

Frequency range-TX2:	800 to 1000Mhz, max span 45Mhz
Frequency range-TX3:	1700 to 2000Mhz, Max span 90Mhz
Modulation rates	configurable for each transmitter

## DC Power

DC supply:	7V to 18V (centre: positive voltage) or USB (5V)
Max current:	500 mA at 4.7V (USB), 300mA at 7V

## Connectors

RF:	SMA connectors female (50 Ohm)
DC:	Barrel-Power Jack (2.1mm ID, 5.5mm OD)
USB:	Mini-USB (USB 2.0, HID interface)
TTL:	3.5mm (Mini) stereo jack (centre: input)
RS232:	2.5mm (Sub Mini) stereo jack (centre: Rx/D)

## Physical

Temperature:	-10 to +50°C (for normal operation)
Size:	124 x 82 x 31mm
Weight:	200g
Case:	Extruded aluminium; min. thickness of 1.5mm; IP20

## Operational Log Feature

Each time a unit is attached to a PC and its configuration parameters are changed these details are logged along with the identity of the PC. Likewise each time the unit is powered up, the date, time and duration is logged as well as the frequency range and power setting. This gives users a complete audit trail in case there are claims that the use of the equipment has interfered with other RF services. The unit can hold several thousand timed events.

The use of mobile phone jamming equipment is illegal or restricted in many parts of the world. This unit is sold or supplied on the basis that the end user is fully responsible for meeting any such local requirements.

Specification subject to change without notice

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