












# SECURINESS

## ECM671

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### GSM / UMTS ( 2G/3,5G ) ELECTRONIC COUNTERMEASURE UNIT

-  Covers EGSM900, GSM1800, UMTS2100
-  Enhanced 3G algorithm to support 3.5G operations
-  Reactive operation, ECM signal generated for 30 seconds
-  Adjustable detection sensitivity
-  Output power approx 16 watts EIRP/channel ( 10 watts ERP)
-  Directional antennas
-  Remote Low battery indicator
-  May be powered externally



### Overview

The ECM671 is a small portable unit designed to be used to inhibit the use or contact with, mobile phones, within a specific area. Applications: defusing EOD /IEDD devices, hostage situations or Police raids on buildings.

In EOD applications the unit is simply placed on the ground pointing at the suspect package / vehicle. The unit establishes a link with the remote hub – CPD310 which allows a remote supervisor to monitor all activations and the reason why; a useful feature that allows Security to see if the perpetrator is still in the area and trying to activate the device. This remote link also monitors the status of the internal 12V battery and will produce a battery low warning when the battery voltage drops to a specified value. This allows the remote supervisor to provide a replacement unit allowing the operator to concentrate on defusing the device without having to monitor the ECM unit.

### Operating instructions

When triggered the 671 transmits an ECM signal for 30 seconds. This is long enough to disrupt all types of transmissions and causes any sequence to abort. At the end of the 30second burst, the unit resets and is immediately ready to detect the next sequence. At the start of the activation the unit



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will signal, to a remote hub, its unit number and state that it is jamming and at the end of the 30 seconds another transmission will occur detailing time, unit number, type of phone which caused the activation (2G or 3G) and its detected signal strength.



A telemetry link is part of the CPD351 and will transmit irrespective of whether a CPD310 Hub (see illustration) is used. However this information can be useful in indicating the position of a target in a building. If 2 x ECM671 units are used, one at the front and one at the rear of the building, the telemetry will indicate which unit is being activated and hence whether the target is at the rear or the front of the building.

The internal control unit allows the user to configure exactly how the unit is to function.

The battery status is displayed visually as is the charging status on the LED bar graph. Battery low alarms are transmitted to the remote hub. The unit can function in either Barrage or Reactive Modes and the user can also select the bands over which the unit will function.

Detection sensitivity is controlled via the variable control on the lower left of the panel.

The Link Test button allows the unit to transmit a test message to a remote hub to verify the telemetry link.



## Specifications

### *Blocking*

(E)GSM	925-960 MHz
GSM1800	1805-1880 MHz
3G & 3.5G(UMTS)	2110-2170 MHz

Output Power:	EIRP 16 watts (12dBW) ERP 10watts (10dBW)
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The GSM output is time multiplexed between the bands, whilst the UMTS signal is continuous.

Spurious outputs: -110dBrc/Hz at  $\pm 5$ MHz

### *Detection*

Detection circuitry has adjustable sensitivity to provide the greatest flexibility. Maximum sensitivity setting allows a GSM phone to be detected at up to 500 metres. The unit uses the transmit directional antennas for detection as well so detection is restricted to the area covered by the transmitted ECM signal.

### *Power*

Internal:	2 x 3.2AH sealed lead acid battery
External:	110-250VAC – into charger unit

An external 12VDC input can be supplied as an optional extra allowing the unit to be powered from a standard vehicle battery.

### *Blocking time*

In reactive mode the unit can "fire" approximately over 600 times, each firing lasting 30 seconds. In barrage mode, the unit can function for approximately 5 hours continuously on fully charged batteries.

### *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 would be about 150\* meters in the direction the case is facing.

The signal emitted from the ECM671 is 60 degrees wide in both horizontal and vertical axes.

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

### *Control Panel*

An internal control panel allow the user to select jamming mode-barrage or reactive and also which bands to be affected (GSM900, GSM1800 and/or UMTS2100). A battery status monitor provides visual indications of battery status and also charging status. A sensitivity control allows the user to select the most appropriate detection range for any given application.

### *Telemetry Link*

Output power is 100mW at 458Mhz

Range approximately 5km line of sight using unity gain antennas

### *Temperature*

Range for normal operation: -10 to +50°C.

### *Physical*

Size: 350 x 310 x 115 mm

Weight: 6 Kg with standard 2 x 3.2AH batteries

Case: Double walled construction, lightweight virtually unbreakable  
Polypropylene

## **System products**

ECM671:

Ring venligst for pris

Alle priser er eksklusive moms, levering og installation