

# GINCAN

Do you realise how much GPS jamming affects your operations?



# GINCAN GIVES EFFECTIVE PROTECTION AGAINST THE PROLIFERATION OF LOW-COST, EASY TO OPERATE GPS JAMMING DEVICES

GINCAN is a bolt-on module that provides affordable, effective protection against Global Positioning System (GPS) jamming. It ensures continuity of the important navigation and timing signals used by emergency services, logistics, security, and commercial operations.

Easily retro-fitted, and without modifications needed to the GPS receiver, no other device offering the same level of performance is smaller, lighter, lower cost or as easy to install and conceal.

Developed by Chemring Technology Solutions, a global leader in GPS anti-jamming and geo-location technology, GINCAN is relied on by customers around the world for the continuity of their GPS dependent services.

## THE JAMMING THREAT

GPS jammers are readily available. A device costing less than £50 will provide jamming over a short range, with higher power units able to deny GPS operation over several kilometres.

Plugged directly into the 12V power supply of a vehicle, these jammers are simple to operate and start working immediately.

Examples of two jammers – both widely available yet illegal to use in many countries



## SIMPLE RETRO-FIT PROTECTION FOR GPS RECEIVERS

Originally the preserve of the military, GINCAN brings the benefits of an anti-jamming capability to many applications. Compatible with most GPS receivers, its simple retro-fit installation does not interfere with or require modification to the existing receiver minimising the installation overhead.

## SMALL SIZE, WEIGHT AND POWER

GINCAN is smaller and lighter than similar performing technology. To ensure discreet operation, the module is small enough that it can be installed covertly and is ideal for applications where space constraints may otherwise prohibit the use of such a device.

## JAMMING WARNING

In addition to mitigating the effects of jamming, GINCAN is able to provide an alert to the presence of jamming activity. In some circumstances, knowledge of a jamming event taking place may provide additional intelligence about an environment such that preventative or evasive measures can be adopted to protect people or assets.

## DON'T ACCEPT SECOND BEST

GINCAN outperforms, and is more reliable than GPS receivers which claim to have a built-in anti-jamming capability. These chipset solutions are unable to deliver the performance necessary to provide effective anti-jamming.

For operations which demand a dependable GPS signal, GINCAN is the only viable option which protects both the GPS signals and your investment.



### JAMMING DETECTION

GINCAN can be deployed on both static and mobile platforms to detect the presence of GPS jammers.

By networking jamming alerts from GINCAN units the system can assist law enforcement to identify illegal jamming activity.

### NETWORK TIMING

The precise timing delivered by GPS signals underpin many different network operations and transactions. Just a few fractions of a second in the delay of transactions can have the potential for significant financial loss.

Where GPS is used in such time critical applications every effort needs to be made to ensure the continuity of the GPS service. Whether unintentional or malicious, GINCAN can protect against these outages to ensure network synchronisation is maintained.

A criminal gang used GPS jammers in the Heathrow area to help steal 150 Mercedes vans

SOURCE: Sentinel Project Report

Every day for up to 10 minutes near the London Stock Exchange GPS is blocked

SOURCE: The Economist

### VEHICLE THEFT

Criminals routinely disable GPS trackers in vehicles allowing them to steal cars or intercept high-value cargo without trace. The simple installation of GINCAN into the smallest of spaces can overcome this problem, providing an easily concealed safeguard against malicious jamming. By covertly maintaining the GPS receiver operation, the tracking system continues to operate allowing the vehicle to be located without the knowledge of the offenders.

## ABOUT US

GINCAN has been developed by Chemring Technology Solutions, a world leader in GNSS technologies. With more than 20 years' experience in this domain they develop antennas, timing systems, and advanced anti-jamming technologies for satellite navigation systems. Chemring Technology Solutions are trusted by governments, national security agencies and private-sector customers to provide a wide range of solutions that deliver enhanced capability and commercial advantage.

GINCAN is the latest in a suite of technologies that brings true end-to-end protection to organisations of all sizes across many industries around the world.

## DISCUSS YOUR GPS ANTI-JAMMING REQUIREMENTS TODAY

If you would like to know more about GINCAN contact Martin Ward.

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