



A UNIQUE
COMMAND
AND CONTROL
CAPABILITY



XCHANGE CTI

A unique, advanced solution

Xchange provides continuous communications on jamming frequencies with negligible impact on jamming or communications performance.

Xchange: Communications Through Inhibition (CTI)

Kirintec's patented Xchange technology permits unbroken communications whilst still jamming against RCIEDs.

Using advanced signal processing techniques, the signal to and from the radios and jammer are processed so that the jamming signal does not interfere with radios enabled via Xchange.

Xchange deployment options:

- Integrate as an option into Kirintec's Mercury BLADE and Ventura ECM solutions to counter RCIEDs
- Integrate as an option into our C-UAS solutions, Sky Net Longbow and Recurve

Our team of experts are able to advise you on how this can add to your capabilities.



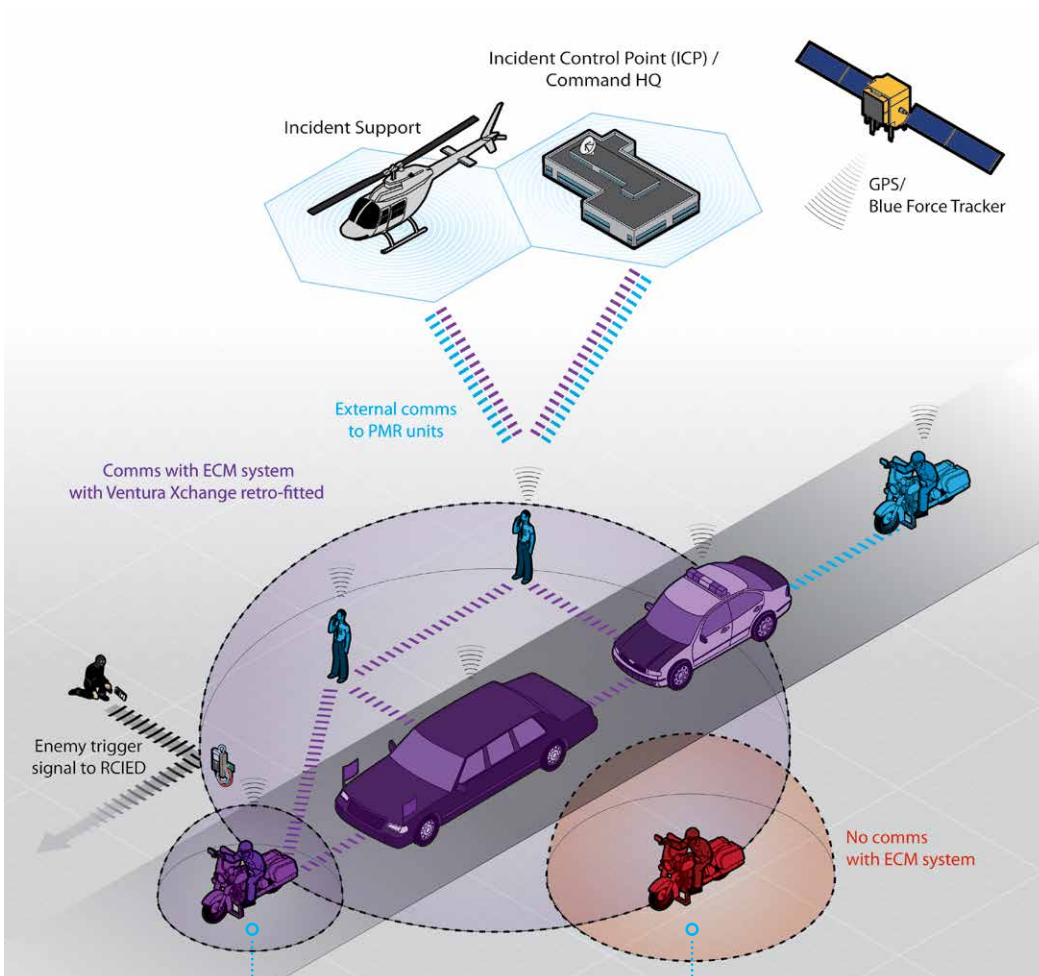
How Xchange works

- It allows both the jammer and radio carrier to coexist on the same frequency
- Xchange can be retrofitted to most radio systems without modification to the radio or any kind of bespoke integration.
- Systems that Xchange operates with include: VHF, UHF, CNR analogue and digital systems
- Our clever patented technology allows encoded and encrypted data to pass through transparently

This means that when Xchange is fitted to your radio, clear unbroken communication is achieved within the jamming bubble. This keeps your team protected and can help safeguard those within the local environment, when countering a RCIED.

The higher formation can be fully informed without compromise to the incident team.

Deploying Xchange CTI technology - advanced performance ECM system



Xchange fitted

Protected and able to communicate with all team members similarly equipped

No Xchange fitted

Therefore no ability to coordinate with everyone else. This outsider is still covered by the BLADE bubble of protection

**An outstanding addition to your fleet**

When Kirintec's Xchange technology is fitted to our jamming system, the impact on jamming effect is negligible.

Our installation team will fit Xchange technology to our jammer and to a radio of your choice.

Once commissioned, no additional configuration is required (other than switching on the system). When operating, complete bi-directional communication is enabled.

Offering advanced performance

Kirintec's Xchange technology allows your radios to operate, even within the bubble of protection.

Xchange technology can be fitted to friendly forces without ECM, should an ECM protected force pass by, friendly force communications are unaffected.

You can choose to have multiple Xchange enabled radios operating in the vicinity, with no effect on each other.

Options of fitting Xchange

Depending on your mission, choose to have Xchange integrated as:

- a high power vehicle mounted version
- or a lightweight man-portable solution

Remember Xchange is compatible with Kirintec's Mercury ECM and Sky Net C-UAS suite of products.

INTEGRATE MERCURY & XCHANGE



Xchange: allows unbroken communications while jamming

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04

ENABLES 'FRIENDLY'
COMMS WHILE
ELIMINATING TERRORIST
COMMS WITHIN THE
JAMMING BUBBLE



Xchange Patch Unit

Integration with existing radios does not require any modification or bespoke integration.

The Xchange patch unit interfaces directly with the antenna connection on the radio, processing the signal to and from the radio.

Multiple ECM systems and radios operating in the same sector can be protected by multiple Xchange systems and Xchange patches.

There are no other options for communicating from within a jamming bubble. Xchange is also frequency agnostic. This means it does not impact on encrypted or frequency hopped technologies currently employed.





Xchange Patch Characteristics

Power input required	Dual PP3 Commercial battery
RF connection in	Antenna output from host radio, SMA 50 Ω.
RF connection out	Antenna input to host radio, SMA 50 Ω.
GPS Antenna port	Antenna integrated into unit
Power on/off	Push button
ECM system compatibility	All Kirintec Xchange enabled jammers
Handset compatibility	Any
Radio system compatibility	Narrowband radios in fixed frequency or frequency hopping modes, analogue (FM) or digital modulations, including secure encrypted operation
Dimensions*	105.4mm x 65mm x 45mm
Weight*	0.25 kg (11 oz)
Installation	No special cooling, shock or vibration dampening required
Operating temperature	-20 °C to +60 °C

**All dimensions and weights are approximate - depending on exact model*

Xchange Part Numbers

Part No	Description	NSN
KT-950-062	UHF Patch	5895-99-668-4933
KT-950-xxx	VHF Patch	5895-99-668-4933

Further technical information is Classified as 'Official - Sensitive' and is available only to qualified individuals and approved Government Agencies.