



SINGARS Radio Based Combat ID (RBCI)

A fratricide avoidance system providing a coalition combat identification solution.



Engineered for life

Photos courtesy of the U.S. DoD and ITT Corporation.

SINCGARS Radio Based Combat ID (RBCI)

Radio Based Combat Identification (RBCI) is the latest capability added to the combat proven SINCGARS family of tactical radios. RBCI helps save lives by speeding up target location and identification. This is a software-only solution to the combat identification challenge. The SINCGARS family of tactical radios supported by Radio Based Combat Identification includes the ASIP, the Airborne, and the Spearhead platforms.

Using broadcast interrogations from land or airborne platforms RBCI equipped SINCGARS can correlate their location with that of interrogators to identify themselves as "friendlies" in a target zone. The interrogations consist of a set of GPS coordinates that are transmitted, processed and returned so that the engagement is transparent to the warfighter.

Similar to a traditional Identification Friend or Foe (IFF) system, individual targets can be interrogated or whole areas can be interrogated to detect the presence of friendly forces. The interrogation can also be relayed by an intermediate SINCGARS RBCI platform to extend the range to far-out or dug-in warfighters.

SINCGARS RBCI functions include interrogation broadcast, interrogation relay and interrogation response. Currently, all the RBCI functions are supported by the ground platform, only interrogator broadcast in the airborne platform and only interrogation response in the dismounted platform.

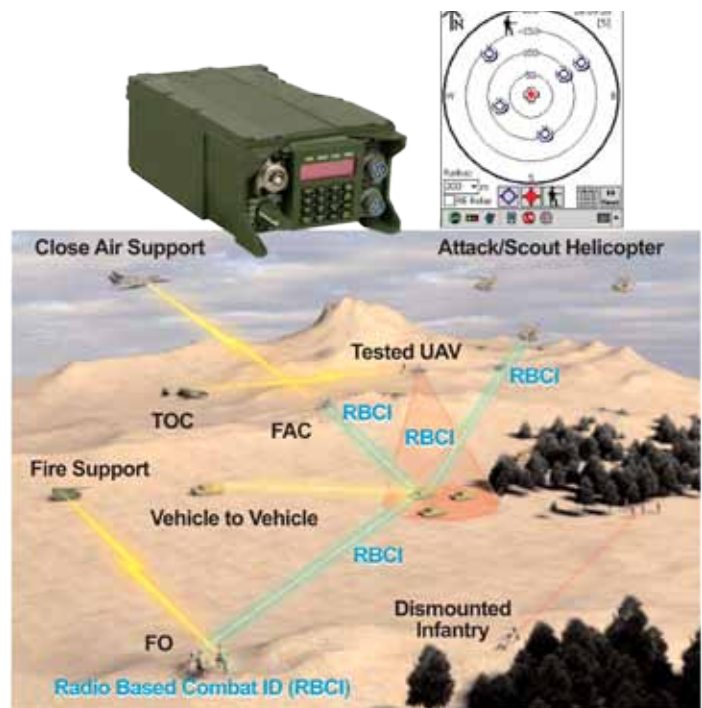
In addition to SINCGARS RBCI, the Pocket Forward Entry Device (PFED) provides a graphical interface to display a common picture of the battlefield. Coupled with a Laser Range Finder (LRF) device, forward observers have the ability to "laze" a target area, automatically interrogate that area, and display the results on the PFED.

Key Operational Benefits

- Reduces battlefield fratricide
- Assists with the clearance of fires
- Uses currently fielded equipment

Features

- Combat Identification within 2 seconds
- On demand unit tracking
- Ground-to-ground as well as Air-to-ground CID solution
- U.S. and coalition force Combat ID solution
- Uses existing SINCGARS support base
- No new FSR/depot provisioning needed
- Uses existing vehicle/manpack radios
- No new equipment needed
- Easily integrated into current TPs
- Employs current RT MMI functionality



ITT Corporation

Communications Systems

Tactical Communications Systems
1919 West Cook Road
P.O. Box 3700
Fort Wayne, IN 46801-3700, USA
Phone: 260.451.4600
Email: contact.cs@itt.com
www.cs.itt.com



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