

AN1600 TRANSPORTABLE REPEATERS

➤ FEATURES AT A GLANCE

- **Portable briefcase for an instant local repeater site**
- **Interfaces to handsets and mobiles, linking back to infrastructure**
- **VHF, UHF and 800 MHz operation in either analog or digital P25 modes**
- **Crossbanding for inter-agency communication**
- **Optional HF or satellite interfaces available**
- **Low current consumption**
- **Remote solar power operation option**
- **Extreme temperature tolerance (-30°C to +60°C)**

THE PROBLEM

When disasters strike, it usually happens at the worst time, in the worst location and somewhere that no longer has communications. Yet First Responders race to the epicentre to help. Codan has a communication solution for these emergencies: Transportable Repeaters provide a portable communications solution that is self contained and can be deployed in minutes.

THE SOLUTION

A transportable repeater such as the unit shown on the next page is a standard LMR radio repeater specially packaged in a briefcase for portability with all the accessories required to instantly create a local repeater site. Capable of interfacing to First Responder's handsets and mobiles it creates a relay between First Responders and also links back to existing infrastructure. Transportable Repeaters are available for VHF, UHF and 800 MHz operation in either analog or digital P25 modes and can support Crossbanding between bands to enable different agencies to communicate together. Optional HF or Satellite interfaces enable communications to remote locations should existing infrastructure be damaged or unavailable.

PACKAGING OPTIONS

Packages such as those in a high visibility waterproof case are available for outdoor applications such as forest fire fighting where the ability to work in any weather condition for extended periods is required. For tactical applications a Briefcase Repeater provides a compact, lightweight, package offering ease of deployment by one person.

Both packages provide quick connect AC or DC power and antenna connectors along with battery backup, duplexers and trickle chargers allowing any first responder to setup and operate the repeater. Optional accessories to create a complete radio site include solar panels, battery backup systems and antenna with mounting system.

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TYPICAL APPLICATIONS

Applications for transportable repeaters are as diverse as the First Responder agencies (Police, Fire, Ambulance, Search and Rescue, Civil Defense, Forest Fire Fighters, Reconstruction and Recovery operations) using them. In fact it is hard to imagine a First Responder group that doesn't need a transportable repeater.

- **Forest Fires** – Each year Codan transportable repeaters are deployed across North America during Forest Fire season to provide on-site local communications to the forest fire fighting crews and also Crossbanding capabilities with the helicopters and airplanes fighting the fires.
- **Natural Disasters** – After a hurricane the fixed infrastructure may be damaged (as was the case with Katrina in New Orleans). Briefcase Repeaters provide temporary communications to on-site first responders and also provide additional communications infrastructure for first responders that may be coming into the region to assist.
- **Multiagency Tactical response** – During tactical incidents it may be necessary to bring communications into a building to support the tactical response. A Crossband repeater with encryption will support the multiple agencies responding, and packaged in a black suitcase, the nature of the equipment being used will not be obvious to the public.
- **Search and Rescue** – Lastly in Search and Rescue applications there is a need for communications in a location that may not normally be served by the fixed infrastructure or the infrastructure is damaged. A transportable repeater provides on-site communications in the city, in a tunnel or in a rural region. With an optional Satellite or HF link this site can then also be linked back to the existing network regardless of how remote it may be.

THE BENEFITS

A Repeater enables communications between mobiles/portables that cannot communicate directly together due to distance or obstructions. Modular Repeaters can be configured into a variety of different systems in a standard 19" subrack and facilitate hot swappable replacement of modules during remote site repair. Such systems offer robust construction, low current consumption making them suitable for remote solar powered sites and offer extreme temperature tolerance (-30° to +60°C) enabling them to be deployed in some of the world's harshest environments. Repeaters are available for any frequency band including Lowband, VHF, UHF and 800 MHz.

- Rapidly deployable
- Rugged
- Reliable
- Compact
- Intended for all weather and operational conditions
- Operate on battery backup
- Available in a variety of repeater configurations
- Supports all frequency bands including cross band Analog, Digital P25 (Clear or Secure)
- Waterproof, Shockproof, Vibration proof
- Optional Solar Panels, Battery Backup and Antenna

To learn more about how Codan can meet your communications needs, please contact us at the details below.



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