

CIVIL FIRST RESPONDER APPLICATIONS

The ability for the National Guard to communicate with Fire and Police rescue and security teams significantly enhances the command and control of major civil disaster events. Rather than exchanging personnel and equipment, having a device that translates between the systems and across bands improves the efficiency, the communications, and the management of relief efforts. Compound that with the number of relief agencies from all over the United States and from all levels of Government, the communications difficulties become enormous and the true value of the uGATE™ system in these environments can be realized. Simply plugging a radio from each net into the uGATE™ device solves the problem – automatically.

For example, using the uGATE-C™ and uGATE-C Plus™ permits each of the agencies involved to talk via their own radios to all other agencies connected to the system without regard to line of sight restrictions, disparate radios, or different frequency bands, as well as extend those communications to any command center anywhere in the country (or world, for that matter). In addition, the uGATE-C™ and uGATE-C Plus™ can be rapidly configured into a number of “talk groups” as required to prevent communications confusion.



Advatech Pacific, Inc.

is a fast growing, Advanced Engineering and Technology firm with offices located in Redlands, Palmdale, and San Diego, California; Phoenix, Arizona; and Huntsville, Alabama.

In addition to communication/electronic solutions, Advatech specializes in developing software engineering tools and providing services to solve multidisciplinary problems for the Aerospace and Defense Industry.



Advatech Pacific's Products and Services Include:

- **Communications:** Cross-Band and Beyond Line of Sight Interoperability for the Military, Civil First Responders and others (uGATE™ Products)
- **Electronics:** Innovative designs with Embedded Software (Design, Development, Testing and Production)
- **Software Development:** Applications, Tools, and Integration of Multi-Disciplinary Engineering Design & Analysis Tools
- **Advanced Engineering Design and Analysis**



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Advatech Pacific **Advatech Pacific**
Changing The Way Engineering Is Conducted™



**UNIVERSAL
GATEWAY**
TO TELECOMMUNICATIONS EQUIPMENT
FOR FIRST RESPONDERS



Civil First Responder Applications



uGATE-C™ Plus

YOUR COMPLETE SOLUTION

The uGATE-C Plus™ provides interoperability among up to 8 disparate communications means, including satellite phones, and is capable of up to 4 separate talk groups as required. It takes only minutes to connect the external radios to the uGATE-C Plus™ and then the unit operates automatically without the need for a dedicated operator.



uGATE-C™

COMMUNICATION ESSENTIALS

The uGATE-C™ contains an internal Iridium Satellite phone and three external connections for voice interoperability. When attached to the uGATE-C™ Plus, the complete system provides a total Interoperable Communications Node for the Incident Commander (see the diagram at the right.)



UNIVERSAL GATEWAY TO TELECOMMUNICATIONS EQUIPMENT (uGATE™)

In the event of natural or man-made civil disaster, many organizations are called to the area to assist the citizens, help restore order, and rebuild as necessary. These "First-Responders" include the National Guard, various police and public safety organizations, federal and state agencies, as well as humanitarian organizations. Each has its own communications. Now, with uGATE™ communicate with one another.

Advatech Pacific has leveraged its years of military communications experience to develop a family of communication interoperability equipment that permits legacy-to-legacy and/or legacy-to-new without any design or interface changes to the existing communication equipment. This allows graceful upgrade of client equipment as funds become available and technology changes.



KEY FEATURES of the uGATE™ Products

- Interoperability:** Interconnectivity among disparate radio systems currently used by the various public safety agencies, state, and federal support, and National Guard.
- Beyond-Line-Of-Sight:** Built-in satellite phone (uGATE-C™) or satellite phone interface (uGATE-C Plus™) allows communication without the use of relay sites.
- Legacy/New Radio Transition:** The ability to integrate legacy communication radios with new/future communications devices to allow for a managed technology transition.
- Rugged/Reliable:** Designed and built using military standards to sustain durability and reliability during any event.
- Affordable:** The uGATE™ family is reasonably priced to meet the financial budgets of city and state organizations.

uGATE™ APPLICATION EXAMPLE

