

Emergency Response

An interoperable communications perspective for disaster recovery & emergency response



Transportable Communications Solutions

One Redcom Center, Victor, NY 14564, USA
www.redcom.com sales@redcom.com +1.585.924.6500
085000-019-20121101



REDCOM® 

THE COMPLETE SOLUTION FOR TRANSPORTABLE COMMUNICATIONS

When you need a communications platform that meets mission critical requirements, REDCOM provides you with the solutions that perform in the world's most challenging environments.

REDCOM communications platforms are specifically engineered for interoperability and durability. With installations that range from remote central offices to disaster recovery sites, REDCOM provides communications platforms that are proven in the most demanding conditions.

PERFORMANCE WHEN IT COUNTS

In emergency situations, where dispatcher performance is crucial to establishing effective communications command and control, REDCOM provides the Link Command System. A GUI package that offers call control and handling capability, the Link Command System provides dispatchers with a complete, user-friendly call control interface. Using a standard PC, the Link Command System allows the operator to intercept calls and manage conference bridges, directory requests, and incoming call queues.



RELIABILITY IN EXTREME CONDITIONS

REDCOM communications platforms are designed to perform under the most challenging environments—from the intense humidity of tropical islands, the searing heat of the Sahara to the frigid temperatures of the Arctic.

INTEGRATED TDM AND VoIP IN A SINGLE PLATFORM

REDCOM solutions equipped with the TRANSip® technology suite provide much more than first generation softswitches by integrating VoIP and TDM Call Management, Media Gateway Services, a Media Gateway Controller, and other important features. REDCOM transportable solutions offer all the benefits of IP while preserving the functionality of the existing telecom infrastructure.

MAXIMUM INTEROPERABILITY

REDCOM's communication platforms support a full range of international interfaces and protocols, offering you the ability to match regional communications technology. REDCOM also provides a simple user interface, allowing fast and easy upgrades, alterations, and configuration changes to be made in the field.

Using multiple system configuration databases, a single communication platform can be quickly reconfigured by simply loading the new database. One platform can then be used as a backup or standby communications platform in nearly any location in the world. These unique and powerful capabilities are delivered through a multitude of standards-based protocols and interfaces including:

- SIP, VoIP, Analog and ISDN
- Trunking Capability: SIP, T1, E1, E&M, ISDN, SS7/C7, MFC R2
- Satellite Connectivity: SIP, SS5/C5
- Radio Connectivity: UHF, VHF

REDCOM's communication platforms have powerful conferencing capabilities allowing different types of conference bridges to be set up on one system. Users can participate in the conference, whether connected by radio, satellite, GSM, PSTN, or VoIP.

Disaster recovery communications used by leading international organizations

When an organization needs a reliable communications platform to be up and running in minutes to support critical operations, they call on REDCOM. We are proud to provide equipment to the U.S. Air Force, U.S. Marines, U.S. Navy, U.S. Army, the Department of Homeland Security, the FBI, FEMA and NASA.



REDCOM's tough and transportable communications packages

REDCOM's Transportable Communications Package (TCP), used by emergency responders around the world, offers multiple options that combine a REDCOM communications platform integrated with other equipment including fiber drivers, routers and Ethernet switches. Featuring a modular cabling system in a highly durable, shock and weather resistant case, the TCP is easily deployable for disaster recovery and emergency services operations.

A wide variety of packaging options are available, including custom designs to meet your specific needs. REDCOM TCPs meet stringent standards for impact and vibration, and are built to withstand the harsh conditions of airlift, seaborne transport, and off-road transportation. Multiple TCP units can be stacked as a single system using bus cables. REDCOM transportable units are highly mobile and are installed in ships, trucks and Humvees, as well as various communications shelters and remote encampments or tent cities.

REDCOM TCPs are available in multiple configurations. Some commonly used packages are shown below:

HDX TCP

- Up to 3,000 IP subscribers per shelf
- Hundreds of TDM ports per shelf (2048)
- Hot-swappable circuit boards
- Low power consumption
- No fans, no filters, no moving parts
- Optional redundant control for individual shelves



SLICE® 2100™ TCP

- Up to 2,000 IP subscribers per SLICE 2100
- Up to 48 analog line circuits
- Optional Magneto lines
- Man-portable system, less than 80 lbs.
- Stackability triples switching & interface capacity



RDEC3 Rapidly Deployable Emergency Command & Control Center

OVERVIEW

REDCOM and TLC Solutions, Inc. have teamed up to "cut the wires" by combining the technologies of REDCOM's SLICE® 2100™ and TLC Solutions' Portable GSM Network, creating a self-contained switching system, designed to serve as the communications hub for a Rapidly Deployable Emergency Command and Control Center (RDEC3). The RDEC3 is a small, fully-specified GSM/Soft-switch solution. Backed by REDCOM's and TLC Solutions' world-class integration and support services, this system can provide the features found in today's commercial PBXs and GSM networks including voice calling, Short Message Service (SMS), GPRS/EDGE data, handovers and mobile authentication.

The design and flexibility of the RDEC3 make it the ideal solution to act as the communications core for an Incident Command Center, Tactical Command Post, Homeland Security, Public Safety and a myriad of other applications where reliable communications are critical.

CUSTOMIZABLE TO MEET YOUR NEEDS

The RDEC3 Network is available in a number of different configurations and with a variety of options including support for multi-media, email and chat on the GSM devices and up to 2,000 IP subscribers, SIP, AS-SIP, T1/E1, analog trunks, analog lines, ISDN-BRI lines and radio circuits on the REDCOM SLICE 2100.

RUGGEDIZED PACKAGING

The RDEC3 can be packaged in a rugged transit case capable of being checked as baggage on most commercial aircraft. The RDEC3 can provide reliable voice and data communications services in the harshest and most remote locations on earth.



FLEXIBLE DEPLOYMENT

The RDEC3 Network can operate in a variety of modes, including as a single base station subsystem or as a larger, networked base station subsystem with multiple nodes. All communications between the components of the RDEC3 Network are accomplished via IP connectivity, resulting in network flexibility that can be easily integrated into an existing network infrastructure. The GSM network is available in 850 MHz, 900 MHz, 1800 MHz and 1900 MHz frequency bands and supports both GPRS and EDGE data connectivity.

Based on the customer's operational requirements, the RDEC3 can be prewired and configured to be set-up and operational within minutes of antenna deployment and the flip of the power switch.

Real world experience in crisis situations

REDCOM switches have proven themselves as a durable platform under the most demanding conditions



HURRICANE KATRINA

Deployed as an integrated communications solution in key locations to assist in recovery efforts, REDCOM communication platforms can be used with wireless systems to provide coverage for relief operations and as part of a private wireless network for government security organizations—including relief efforts for Hurricane Katrina.



FLOOD RELIEF EFFORTS

During flood relief efforts, REDCOM's communication platforms allow multiple relief agencies to coordinate supplies, logistics and assistance using a combination of TDM, radio and satellite communications.



EARTHQUAKE READINESS

During an earthquake, communications among multiple government agencies can become disjointed and hectic. REDCOM communication platforms can be employed as part of an integrated wireless communications package by government officials.



ARMED FORCES DEPLOYMENT

Defense forces around the world use REDCOM communication platforms to enable civilian and defense emergency response communications. Deployments include relief efforts in Nigeria, East Timor, Bosnia and Honduras.

REDCOM: the experts on transportable communications solutions

When you need a transportable communications platform that performs in the most demanding environments, build your network around REDCOM. For more than 30 years, REDCOM has specialized in the design and manufacture of innovative telecommunications products noted for their quality and reliability. Located in Victor, New York, REDCOM's global customer base includes commercial telecom carriers, private networks, integrators, emergency responders, and government and defense agencies. All REDCOM products are proudly designed, manufactured and assembled in the United States.

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