

GSM nanoCELL Phone Networks

Miniature - Mobile - Private

Homeland Security Applications

One of the biggest challenges for Homeland Security is establishing dependable communications when the lights go out. RIVA Network's new nanoCELL technology is ideal for creating emergency cellular phone networks.

Organizations can establish secure, private cell phone networks that lie dormant until an emergency incident occurs or the public networks crash.

- Establish secure communications at ground zero using nanoCELL cell phone base stations carried in brief cases or mounted in trucks.
- Install low cost "back up" cell phone networks to cover critical infrastructure.
- Re-establish Command and Control in minutes.
- Designated personnel can be instantly productive using the same cell phone they use every day.
- Phone lists and speed dials remain the same – eliminating the need for paging through complex radio operations manuals when time is critical.
- Benefit from inherently superior "in-building" penetration characteristics of cell phones.
- Benefit from GSM cell phone's inherently superior performance in dense urban areas.
- Leverage the low cost of cell phones.
- Avoid high priced multi-band radios.



Ideal for government, agency, law enforcement or rescue operations where commercial off the shelf cellular technology can be used for back-up communications.

Temporary, non-commercial nanoCELL phone networks can be set up for secure, private networks at major public conferences, convention and sporting events.

Protect command and control in areas of critical infrastructure.

- Homeland Security
- Airports and Train stations
- Government buildings
- Power stations or chemical facilities
- Dams and bridges
- Nuclear reactors
- Emergency and rescue operations
- Disaster recovery



**miniature, portable
nanoCELL base station**



- Available in 1900 U.S. carrier spectrum or 1800 MHz DoD spectrum.
- The entire network management runs on a Windows PC or laptop.
- Interconnect with networks using standard ethernet connections.
- Voice over Internet Protocol (VoIP) capable via H.323 standard packet data.
- Backhaul nanoCELL networks to HQ using Internet Protocol packet connections over ethernet, microwave or satellite.
- GSM Abis/IP O&M/IP and RTP/UDP/IP signal data is easily routed over existing networks - reducing backhaul costs.



The ideal standby communications network.

Whether they are mounted on early responder trucks, packed in cargo cases ready to be dropped in or installed permanently. In emergency situations nanoCELLs provide:

- Secure encrypted voice calls using Sectera Commercial or Sectera Type 1 GSM cell phone handsets.
- Low cost of ownership for a private wireless network.
- Communicate across agencies using COTS cell phones to connect with other law enforcement, military and rescue teams.

