nanoLTE™

4G Remote Cellular Networks

- RIVA Network's nanoLTE™ systems are standards-based, feature-rich, 4G small cell solutions. Each independent cell site is managed locally by a powerful LTE software platform which provides all of the same features available in commercial networks.
- The nanoLTE™ advantage locates all of the network operations, controls and features at each cell site by using a compact, low energy, Single Board Computer (SBC).
- Each site's Evolved Packet Core (EPC) implementation combines the powerful LTE network elements in a compact design.
- With nanoLTE™ commercial mobile operators can extend their coverage to remote areas without the need to build out expensive fiber backhaul links, towers and power plants.
- nanoLTE[™] networks are available in both indoor and outdoor packaging.
- Organizations can now establish secure, private cell phone networks anywhere on earth, at a reasonable cost.
- Improve productivity and enhance worker safety with the convenience of smartphones, tablets and mobile phone technology.
- The **nanoLTE**[™] proprietary operating system runs autonomously and provides coverage independent of traditional public infrastructure.



nanoLTE outdoor and indoor radio nodes

nanoLTE™ systems support:

Multiple Simultaneous HDTV streams

Mobile Carrier Expansion

Remote and Rural Sites

Aircraft and Ships

Oil Rigs and Mines

Disaster Recovery, COG and COOP



nanoLTE™

High Speed 4G Cellular Networks





RIVA's Network and Security Operations Center (NSOC)

- For remote sites "off the grid", a local nanoLTE™ node provides broadband data access and cached media content without having to backhaul all signaling and user data to a centralized commercial NOC.
- Each nanoLTE™ site runs autonomously even if the backhaul connection has failed.
- nanoLTE[™] is optimized to run at the network edge with one or more LTE radios (eNodeB) deployed in a remote area, on campus, aircrafts, ships, or for a variety of other applications such as public safety, defense and disaster recovery.
- For Government or public safety, nanoLTE™ allows autonomous high bandwidth and long range IP communications.
- nanoLTE[™] supports both voice and IP data; easily backhauled over any IP connection.

- nanoLTE[™], combined with a satellite backhaul, can be configured as a private end-to-end network or as a roaming extension.
- Global Roaming: nanoLTE™ systems enable inbound and outbound calls from any public network, using your mobile phone number.
- nanoLTE[™] cell sites are optimized to perform all of the signaling locally, reducing backhaul bandwidth. Large data files are stored at the edge, without the need to open satellite links.
- nanoLTE™ sites can include legacy SMS text messaging, GPRS, EDGE and 3G radios – all managed on the same software platform.



RIVA Earth Station Antenna Farm

