

xG Technology's xMAX Advanced Cognitive Radio Network

MISSION-ASSURED COMMUNICATIONS IN ANY RF ENVIRONMENT

xMax is simply the most versatile, powerful, and affordable answer available today to close the “digital divide” that exists between stationary forces and those on the move.

Today's wireless communications spectrum is highly congested, prone to interference, and subject to intentional or unintentional jamming. xG Technology is the proven leader in mission-critical voice, video, and data communications solutions that are engineered to overcome these challenges. The xMax System uses patented interference mitigation and dynamic spectrum access technologies to ensure that vital communications are delivered reliably and securely across the operational continuum, even in the worst RF conditions and when subjected to highly sophisticated and directed interference (jamming).

Technical Advantages

- ◆ xMax is a fully expeditionary, all-IP communications transport layer that delivers voice, video, and data over a single set of network hardware.
- ◆ xMax is built on the foundation of a C-SDR/C-RAN that is operationally adaptable and can be updated predominantly via software refresh.
- ◆ xMax supports commercial user devices – smart phones, tablets, and others.
- ◆ xMax is a C-RAN that delivers levels of interference mitigation and jam-resistance unmatched by any other wireless technology available today.
- ◆ The network can be deployed in any environment with minimal technical skill, creating a dynamically scalable, self-forming, and self healing network that
- ◆ The network can be deployed in any environment with minimal technical skill, creating a dynamically scalable, self-forming, and self healing network that can suffer battle damage while maintaining exceptional resilience and COOP.
- ◆ xMax supports exploitation of the current commercial cellular carrier network infrastructure without being fiscally, geographically, or operationally dependent on it and provides end-user connectivity supporting “last-mile” communications with or without connectivity to deeper network nodes.



xMax expeditionary comms. system deployed in a mobile command vehicle.

Operational Advantages

- ◆ xMax leverages low-cost COTS devices for voice, video, and data and can be employed as an open, closed, secured, or unsecured cognitive network.
- ◆ Can be deployed as fixed, expeditionary, or aerial infrastructure.
- ◆ Can operate across the entire operational continuum from within the CONUS sustaining base to any theater of operations in the world.
- ◆ Adds significant additional spectral capacity at no cost and with no increase in management challenges.
- ◆ Greatly simplifies many of the spectrum management challenges encountered with world-wide deployment of military forces.