

# xMAX NOW (NETWORK ON WHEELS)<sup>™</sup>

## TRANSPORTABLE BROADBAND WIRELESS SYSTEM

*Rapid-Deploy Wide-Area Mobile Data Solution*

Emergencies and disaster situations can occur anywhere and at any time. When they do, establishing reliable data communications is critical. Growing numbers of public safety and emergency operations personnel are relying on the public cellular LTE networks for their voice, text, data and video communications needs. However, during natural disasters or human-caused incidents, these systems can become congested or overloaded, if not partially or completely destroyed. xG Technology's **xMax NOW Network on Wheels<sup>™</sup>** solves this problem.

**xMax NOW Network on Wheels<sup>™</sup>** is a transportable, rapid-rollout, self-contained broadband wireless system that can ensure uninterrupted access to mission-critical data and video services. The system incorporates xG Technology's xMax secure, high-speed private wireless network infrastructure. xMax is engineered to deliver exceptional resiliency and redundancy in unpredictable environments and fluid and chaotic situations. xMax is a public safety-grade data communications layer that has been field-tested in demanding (military) environments.



The **xMax NOW Network on Wheels<sup>™</sup> Solution** has everything needed to establish instant, wide-area mobile communications capabilities in a roll-out format. The system includes a self-configuring data center unit, a fast and flexible mechanical mast system (supporting 110 lbs.), cabling, antennas, switches, and quick-install hardware and accessories. **xMax NOW** can be de deployed in 30 minutes, even by staff with little technical training or expertise. All equipment is pre-packaged in ruggedized cases for easy transport. The system can also be ordered and pre-configured with optional applications and devices that extend the xMax solution, including DirectView Streaming Body Cameras.

**xMax NOW** extends the range of mobile voice, text, data and video communications up to several miles from your command center. The system can be configured to provide fill-in coverage as needed, or can serve as a complete private network that only first responders can access, giving them a secure broadband connection for all their voice, text, data and video requirements. xG's patented software-defined network technology quickly provides assured connectivity. Because it is not dependent on public cellular systems, xMax assures robust, resilient and inherently scalable communications, regardless of the environment.

**xMax NOW Network on Wheels<sup>™</sup>** is available in the following three configurations:

**NOW 8000:** This kit is the base configuration. It includes four xMax Access Points with antenna, GPS antenna, cables and POE switch in transport case; four xMax Vehicle Modems with vehicle antenna, car power adaptor, and WiFi antenna in individual cases; xMax Mobile Control servers in ruggedized case, and heavy-duty BlueSky Mast in rolling case. This package is fully expeditionary and will service up to 16 simultaneous users. The system can cover up to 7 miles in open spaces (less in urban and suburban areas). Capacity can be increased by ordering additional Vehicle Modems and Access Points. Network management server and a voice proxy server are included.

**NOW 8010:** Includes the NOW 8000 kit plus Raytheon ACU5000 interoperability box (shown, above right). This allows the base kit functionality plus radio interoperability with cellular phones, POTS, military radios and public safety radios.

**NOW 8020:** Includes the NOW 8000 kit *PLUS* portable satellite backhaul capability *PLUS* one year of prepaid Ku satellite subscription service (US operation).

**NOW 8030:** Includes the NOW 8000 kit *PLUS* plus Raytheon ACU5000 interoperability box *PLUS* portable satellite backhaul capability *PLUS* one year of prepaid Ku satellite subscription service (US operation).



## xMAX SYSTEM BENEFITS

### ALWAYS ON: UNMATCHED RELIABILITY.



xMax was engineered from the ground up to deliver anywhere-anytime communications that perform in the most demanding crisis situations. It adds a superior level of survivability and redundancy that provide continuity of operations – an acute requirement in first responder communications. xMax fills in the gaps in coverage and capabilities that are inherent in the design of traditional systems. xMax also supports multiple backhaul connection options, including SATCOM, point-to-point wireless, microwave, and fiberoptic connections (if available), from a variety of vendors, including Redline Communications.

### ALWAYS CONNECTED: EXCEPTIONAL INTEROPERABILITY.



xMax creates an end-to-end, IP transport layer that allows your teams to connect using any commercially available device including smartphones, tablets, video cameras and unmanned sensors. This is critical when multiple-agency response and a wide variety of communications gear is involved. xMax also interconnects easily with LTE, GSM, CDMA and P25 systems and can serve as a complementary system to FirstNet, providing a crucial extra layer of voice and data reliability. xMax integrates seamlessly with third-party solutions that allow quick-setup interoperability networks on which first responders can communicate with each other **using their own equipment**. This equipment can include phones, various types of radios or Voice Over Internet Protocol (VoIP) devices.

xG Technology also offers an optional mobile team-collaboration tool that provides first responders with a common operating platform, which allows them to plan, communicate and act more quickly, safely and effectively during critical incidents as well as daily operations. The tool includes the following key functions:

- Interactive whiteboarding on images & maps
- Mapping and personnel tracking
- Team roster and status
- IP Video feeds to any client
- Digital situation reports & forms
- File sharing: Photos, PDFs, Office Docs, Floor plans, videos
- Text messaging (point-to-point & group)
- After-action reporting

### ALWAYS SECURE: YOUR PRIVATE COMMUNICATIONS NETWORK.



xMax delivers a private high-speed voice and data network that goes beyond “priority access” and delivers “private access,” meaning it is only accessible by emergency response teams. Unlike the public cellular network, there is no contention for airwaves on the part of first responders. There are also no commercially available radios sharing the system, so private communications remain private. xG’s patented, multi-layered interference mitigation technology makes xMax difficult to jam or hack. Using the Radio IP mobile VPN option, xMax provides military-grade encryption that supports HIPAA, FIPS140-2, and FBI CJIS Security Policy compliance. xMax also supports encryption through your existing provider.

xMax ensures seamless and secure mobility by making available support for **application session persistence** to overcome variations in field connectivity, as well as roaming to almost all public and private networks available (including LANs, hotspots, carrier and private radio). This ensures uninterrupted network availability and a predictable data transfer and application experience for public safety personnel.

For additional information on **xMax NOW Network on Wheels™** features, options, and pricing, please contact xG Technology at (954) 572-0395.

