

REDCOM SIGMA® XRI-400

Increasing communications interoperability & mobility for the U.S. Army

Future operating concepts for the U.S. Army emphasize the need for decentralized operations in complex environments and across all domains. In the next fight, ease of use, interoperability, and integration with Joint and Coalition forces will be critical for mission success.

In line with these operational concepts, REDCOM presents Sigma® XRI-400, a full-featured C2 platform that delivers voice, video, chat, and radio interoperability in a single box. REDCOM Sigma XRI-400 consists of a small form factor purpose-built platform with four radio ports, all powered by REDCOM's flagship Sigma C2 software. This solution delivers the following key benefits to the U.S. Army:



REDCOM SIGMA® SOFTWARE

- C2 software platform with voice, video, and chat
- Provides a single pane of glass for monitoring & controlling all C2 comms
- Easy to use: intuitive UI reduces training and ramp-up time
- Support for interop with up to 32 TSM talk groups
- On the DoDIN Approved Products List

REDCOM SIGMA® XRI

- Low SWaP small form factor C2 platform for distributed expeditionary operations
- Solves Coalition and Joint interoperability challenges
- Enables stand-alone comms in DIL environments
- Interoperates with legacy or existing infrastructure
- Rapid boot time and resilient to hard shutdowns

REDCOM XRI HARDWARE

- 4 built-in analog audio interfaces for donor radios
- Configurable PTT and PTS trigger modes
- Agnostic to radio make, model, encryption, & waveform
- Communicate seamlessly over multiple nets
- Works with any IP-connected communications equipment, including SATCOM

Command & Control

Unit leaders need access to a command and control suite that provides consistent access to mission-critical information in order to maintain continuity of operations, maneuverability, and superiority within the battle space. REDCOM Sigma XRI-400 is designed to maintain situational awareness for troop and equipment maneuverability in any contested environment via any means. Even better, this stand-alone C2 solution can easily be deployed in less than 10 minutes.

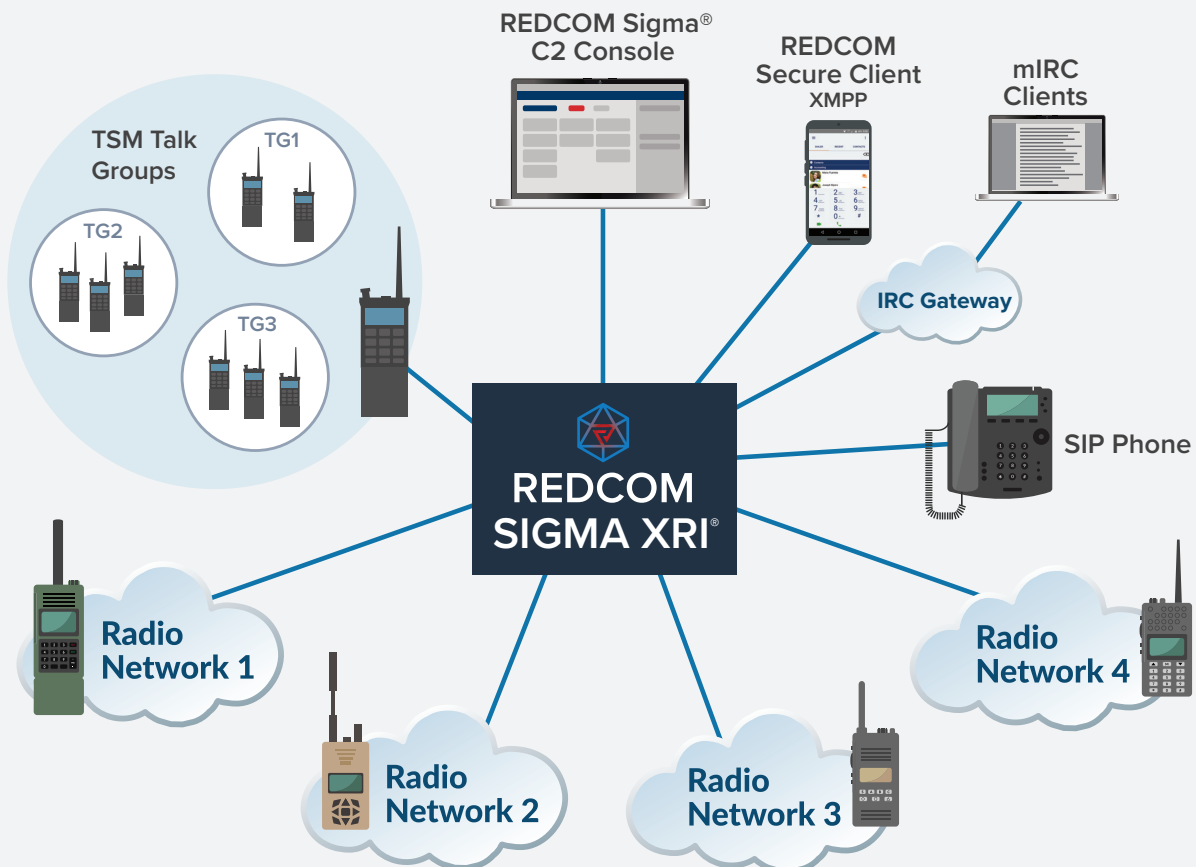


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BRIDGE DISPARATE RF & IP ENDPOINTS WITH REDCOM SIGMA® XRI-400

A single Sigma XRI-400 unit can bring together RF and IP devices from multiple military units or organizations, enabling tactical users to command, control, and communicate.

The XRI hardware includes four analog ports to connect to four separate radio networks. TSM support allows a TrellisWare TSM radio with up to 32 talk groups to connect into the XRI network. The REDCOM C2 Console app enables an operator to monitor and control all connections and dynamically patch them together.



Low SWaP

As the Army's operations become more decentralized and distributed, the ability to communicate is more important than ever. REDCOM Sigma XRI-400 enables warfighters to sustain lines of communication while on-the-move without getting bogged down by gear. The small form factor, robust design, and low power requirements of the Sigma XRI-400 means it can be deployed to the tactical edge in a backpack, on a vehicle, or on aerial assets. This is particularly valuable in forward deployed scenarios where resources are limited and soldiers must be as light as possible.



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Interoperability

Working with Non-Government Organizations (NGO), Joint, and/or Coalition forces presents unique challenges due to the varying signal and communications paths employed by each entity. By connecting up to four donor radios directly to the XRI-400, warfighters can instantly bridge the gap between disparate radio networks, endpoints, or frequencies, allowing for seamless communications between Joint and Coalition forces. Additionally, Sigma XRI-400 allows radio users to communicate directly with users on any SIP end device (e.g. SATCOM, VoIP phones) and can even participate in voice conferences.

Flexible Communications

REDCOM Sigma XRI-400 helps warfighters leverage multiple types of communications lines, especially critical in Disconnected, Intermittent, Limited bandwidth (DIL) environments. If one line of communication is compromised, the next down the line can be used from IP to Wi-Fi, LTE, SATCOM, UHF, VHF, HF, and software-defined radios (SDR).

Ease of Use

Usability is imperative to today's warfighter, whether they are at the tactical edge or in a network operations center environment. REDCOM Sigma's graphical user interface (GUI) is intuitive and easy to use. Incidental users or administrators can be trained in minutes. This allows the Army to further improve its force design by allowing for smaller geographically dispersed teams that do not require field service representatives or IT experts.

Rapid Set up and Tear down

Designed for **shoot, move, communicate** operations, Sigma XRI-400 was developed to be resilient to hard shutdowns and power up in under two minutes. The flexible nature of REDCOM Sigma XRI-400 also allows for the use of various mediums in order to pass mission critical information to any user. Communications can be fully operational within minutes, enabling expeditionary forces to secure a tactical advantage by maintaining mobility at all times.

Converging Capabilities to Reduce Lifecycle Costs

XRI converges C2 capabilities onto one small ruggedized form factor. XRI capabilities include: voice, video, chat, and radio interoperability. To employ these capabilities today, more than one piece of hardware and software solution is required. XRI allows you to divest those multiple costly and complex solutions to simplify your network architecture and bring IP and RF together. Similarly, your training, lifecycle, and maintenance costs are reduced because you only have one item to learn, one item to buy, one item to maintain, and one item to configure.

Learn more at www.redcom.com/xri

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