

REDCOM SIGMA® XRI PRODUCT FAMILY






eXtended Radio Interoperability

Sigma XRI is a hardware platform with a built-in RoIP gateway that provides a full spectrum of C2 comms and radio interoperability, managed and controlled by REDCOM Sigma software. Sigma's feature set includes voice, video, chat, conferencing, radio interoperability, transcoding, and an integrated C2 Console.

Sigma XRI bridges the gap between disparate systems used by military units, government agencies, and public safety organizations. By leveraging existing radio assets, Sigma XRI enables these organizations to instantly connect to each other, regardless of radio network, type, waveform, or frequency used. Furthermore, the XRI converges RF- and IP-based communication platforms, allowing radio users to communicate directly with users on any SIP endpoint. All of these endpoints — whether it's a desk phone, mobile phone, analog radio, or IP radio — can be controlled and patched together on-the-fly with the REDCOM C2 Console app. With the REDCOM Sigma Client for Windows or Android, tactical users can even group endpoints together into ad-hoc Channels for instantaneous Push-to-Talk (PTT) comms across devices and networks.

Sigma XRI configurations

Sigma XRI is available in five different models to suit the mission. All XRIs are powered by REDCOM's flagship Sigma C2 software. In the XRI-400, a built-in compute platform hosts the preinstalled Sigma software. In the other four XRI models, Sigma software runs on a connected or host compute platform.

					
Model Name	XRI-400	XRI-M4R	XRI-M4K	PacStar 421 with XRI	XRI-PCle
Deployment	Stand-alone	An extension to XRI-400 or adjunct to compute platform	Klas Voyager m-Series	PacStar systems from Curtiss-Wright	PCIe slot in a PC or server
Dimensions	8.4 x 5.75 x 2.6 in 21.3 x 14.6 x 6.6 cm	8.4 x 5.75 x 1.125 in 21.3 x 14.6 x 2.9 cm	7.4 x 5.7 x 1 in 18.8 x 14.5 x 2.5 cm	5.3 x 7.1 x 1.6 in 13.5 x 18 x 4.1 cm	Full height, half length PCIe card
Weight	2.6 lbs. / 1.2 kg	1.8 lbs. / 0.82 kg	1.4 lbs. / 0.6 kg	1.9 lbs / 0.86 kg	
Analog Ports	4 x DB-15	4 x RJ-45	4 x RJ-45	4 x DB-15	4 x RJ-45
Sigma	Runs on built-in compute platform	Runs on a connected compute platform	Runs on connected Klas compute module	Runs on connected PacStar 400-series server	Runs on the host compute platform



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IP-based PTT voice integration

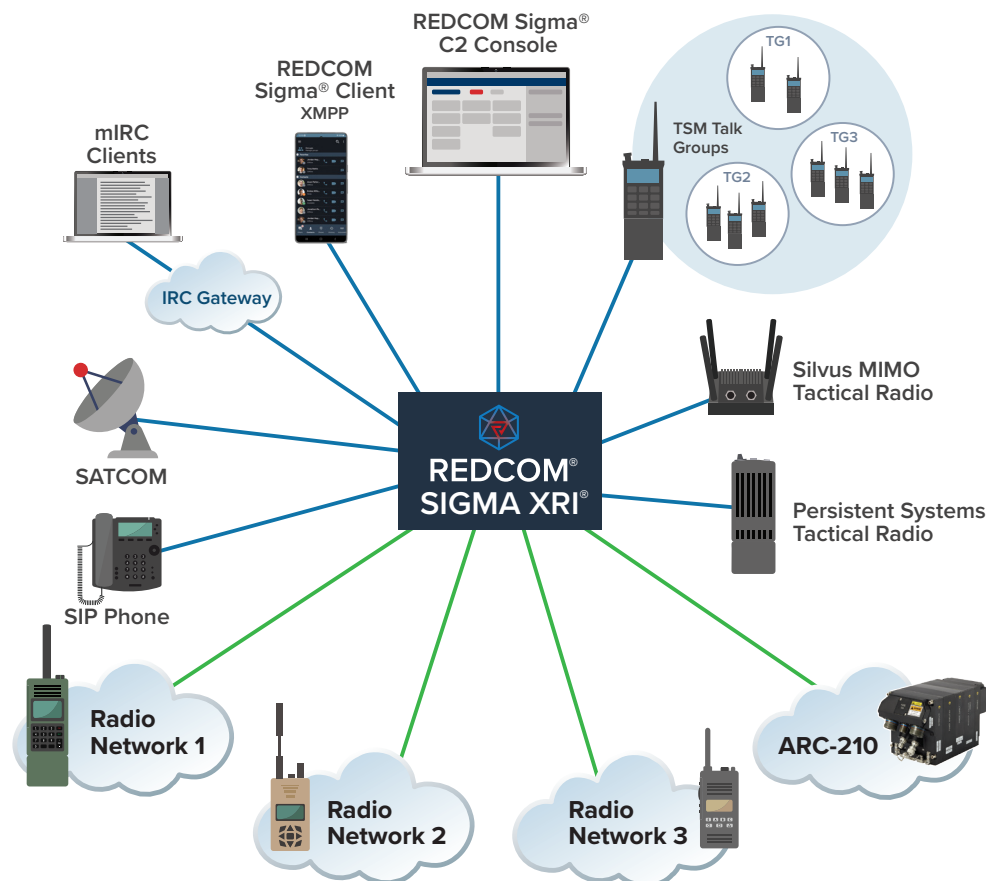
- Interoperable with unicast and multicast RTP-capable radios and PTT apps — including radios from Silvus Technologies, Persistent Systems, DTC, and Thales.
- Simultaneous access to multiple talk groups on a single radio network via individual Sigma radio lines — such as a TSM RF mesh network.
- IP-connected radio nets connect to the XRI via ethernet and do not use up any of the 4 analog radio ports.
- IP-connected radio nets and talk groups can be bridged together (as a channel, patch, or conference) with other IP-connected radio nets, analog-connected radio nets, SIP endpoints, and a console operator.

Intelligent radio interoperability

- Each XRI features 4 built-in radio interfaces.
- Agnostic to radio make/model/encryption/waveform.
- Works with virtually any public safety or tactical radio.
- Communicate seamlessly over multiple nets.
- Configurable PTT signaling modes per port and per caller.
- Supports patches, dialed calls, and monitoring.
- TSM support: IP-based integration of individual talk groups on a TSM (RF mesh) network via a single donor TrellisWare TSM radio.

BRIDGE DISPARATE RF & IP ENDPOINTS WITH REDCOM SIGMA[®] XRI

REDCOM Sigma XRI enables seamless communications by bridging any SIP or RoIP endpoint. Each XRI hardware platform includes four analog ports to connect to four separate radio networks, which can include HF, VHF, UHF, or even specialty military radios such as the ARC-210.



Note: some features, such as TSM talk group integration, require a feature license. Please consult with your REDCOM solution advisor for pricing and configuration options.

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