SOFTWARE DEFINED RADIOS

SRC's software defined radios give warfighters proven flexibility, performance and reliability — no matter the mission

For more than 60 years, SRC, Inc., has developed battle-proven software defined radios (SDRs) that enable warfighters to execute their missions safely and effectively.

SRC's SDRs are built to support the missions of today and tomorrow. By combining a wideband RF spectrum, significant signal processing power, and multiple I/O interfaces, SRC has developed scalable solutions to defend against technologically sophisticated, near-peer adversaries — now, and in the future.

Our SDRs protect personnel, equipment and facilities from a variety of emerging threats and scenarios with offensive and defensive electronic attack, electronic support and electronic protection capabilities. They can also provide advanced cyber and nontraditional intelligence, surveillance and reconnaissance functionality for identifying adversaries and exploiting their weaknesses.

Modular, open architecture designs and industry standard interfaces enable our systems to connect with best-of-breed components. By integrating with devices like signal/data recorders, direction finders and tactical radios, SRC's SDRs provide an expanded set of capabilities for collecting more data for real-time situational awareness and post-event analysis.

REDEFINING POSSIBLE® WITH SOFTWARE

SRC's SDRs are capable of performing a variety of missions to support and protect the warfighter. These systems can be loaded with mission specific or multi-mission software, that can adapt to new or evolving missions without needing to change hardware.

Assured-PNT
Knowing where you are is crucial to force protection. SRC's SDRs can deliver assured-position navigation and timing (PNT), hardening your systems and convoys from PNT based attacks.

Counter-Communications
Protected communications are equally vital to friendly forces and the enemy. Our SDRs can intercept enemy communications and spoof locations of decoy blue-force communications to gather actionable intel while confusing and deceiving the enemy.

Counter-Fuze
Munitions are less effective without fuses. SRC's solutions can deliver EW and cyber payloads to disrupt fuses, reducing the risk of casualties to our warfighters.

Counter-ISR
Allowing the warfighter to conceal movements and confuse adversaries is vital in the near-peer fight. SRC's solutions identify Red and Blue Force signatures while providing denial, deception and decoy capabilities.

SRC'S SUITE OF SOFTWARE DEFINED RADIOS PROVIDE PROVEN, RELIABLE PERFORMANCE IN A FLEXIBLE, RECONFIGURABLE, MISSION READY PACKAGE

SWaP

SOFTWARE DEFINED RADIOS

Counter-RCIED
Remote-controlled improvised explosive devices (RCIED) are easily concealed and pose a grave threat to the warfighter. SRC's multi-mission SDR systems leverage proven precision EW techniques to provide lifesaving protection against RCIED threats.

Counter-UAS
Countering small, fast moving hostile drones is difficult and requires speed, intel and precision. SRC's multi-mission solutions can quickly detect, track, classify and disrupt hostile UAS.

Cyber Support
The future of the battlefield is Cyber. SRC is extending the warfighter's cyber arsenal by integrating cyber-attack techniques into SDR solutions.

Navigation Warfare
Denying the enemy accurate locating ability is crucial to winning the navigation warfare (NAVWAR) fight. Our SDRs can sense enemy PNT effects while delivering surgical PNT attacks to disrupt enemy forces and masking Blue-Force locations.

Special Purpose Electronic Attack
Defending against single, multiple, swarm and coordinated UAS attacks requires a special set of skills and capabilities that SRC's solutions can provide.

Tactical Embedded Networking
SRC's SDRs can provide robust, tactical data links to assure connectivity in a congested and contested electromagnetic environment.

STRENGTH THROUGH SIZE

SRC's SDR systems balance mission needs with size weight and power (SWaP) constraints to deliver critical capabilities to the warfighter. SRC engineers have developed SDRs to fit a variety of SWaP requirements on various platforms.

SRC's multi-mission capable software, combined with SRC's multi-form factor hardware, gives the warfighter the capabilities they need to maintain electromagnetic spectrum superiority in the near-peer fight.

Vehicle Mounted
In a vehicle mounted configuration, our SDRs provide a variety of force protection capabilities both at-the-halt and on-the-move, while meeting existing vehicle SWaP constraints.

Man-portable
SRC's small form factor SDRs are man-portable and provide efficient, multi-mission EW capabilities. Our solutions reduce SWaP, enabling long duration mission support, while lightening the warfighter's load.

Munitions Launched
SRC's micro form factor SDRs can be munitions launched or used as discrete leave-behind technology to deliver cyber-over-RF payloads or mimic blue-force communications to deceive enemies.

BENEFITS

- Supports multi-unit cooperative threat response
- Scalable to defend against the near-peer threat
- SRC's hardware and software work seamlessly for superior performance and reliability
- Flexibility to use existing hardware for new missions with simple software changes
- Multiple form-factors designed to meet SWaP constraints for various deployable configurations
- Software and test support from SRC engineers
- Proven high reliability/ operational availability
- Various SWaP profiles to meet mission constraints and needs

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