

Remote Secure Receiver



Photo Credit: Sgt. Vincent Byrd

Remote Secure Receiver (RSR) plugs and plays with commercial and military devices, providing the world's smallest, most trusted GPS to almost any application.

The positioning, navigation and timing (PNT) needs of soldiers are rapidly changing. Armies are moving to modernized systems that require improved size, weight and power (SWaP) and seamless interoperability with both military and commercial devices.

Military operations also continue to rely on PNT data that only GPS can provide. In combat, the accuracy and confidence of PNT data can mean the difference between life and death. Non-military GPS receivers simply aren't good enough when lives are on the line. Missions such as "call for fire," contact reporting, targeting, border patrol

and tactical surveillance all depend on trusted, high-assurance PNT.

Although the mission need for trusted PNT remains, the GPS jamming and spoofing threat is also growing. The mission impacts of unassured PNT can be deadly. When navigating, a soldier's position can be 500 meters off in just five minutes. These deficiencies can seriously limit the ability of soldiers to successfully conduct operations.

Rockwell Collins leverages industry-leading military GPS and SWaP capability to address these critical combat needs. RSR is the world's smallest, most trusted and lowest-power SAASM-based remote GPS. Ideal for dismounted soldiers, RSR plugs and plays with commercial devices to provide secure, trusted military GPS in a small, lightweight, low-power remote package unmatched by any other product on the market today.

KEY FEATURES/ BENEFITS

- › Trusted, SAASM-based military GPS*
- › Plugs and plays with multiple platforms, including commercial devices
- › High-integrity signal quality*
- › Fast acquisition time
- › Anti-jamming and spoofing for GPS-degraded environments*
- › Data integration with COTS and MOTS devices
- › Flexible I/O – 1PPS, USB, RS-232, NMEA or IS-GPS-153*
- › Small and low power; no internal batteries
- › Pseudolite capable with software upgrade*

**Not available with consumer-grade, commercial products*

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APPLICATION FLEXIBILITY

- › Handheld
- › Targeting
- › Ground vehicles
- › Airborne assets
- › Robots

MILITARY GPS

- › SAASM
- › L1/L2 operation
- › Integrated antenna
- › Keys
 - Black and red key operation
 - Supports Over The Air Rekeying (OTAR)
 - Unclassified when keyed

POWER

- › No internal batteries
- › No power required to maintain crypto
- › External power input
 - <500 mW (continuous track)
 - Input voltage: 2.5V – 5.5V

RUGGEDIZED FOR EXTREME CONDITIONS

- › Built for MIL-STD-810F qualification to survive harsh operating environments
 - Operating temperature: -20° to +70° C
 - Storage temperature: -40° to +70° C
 - 1 meter immersion
- › EMI 461 (RE-102 and RS-103)
- › Rugged cables available on request; includes key fill, USB and RS-232

DIMENSIONS

- › 2.6 X 1.8 X 1.0 in. (6.6 x 4.6 x 2.5 cm)
- › Under 3.5 ounces (.099 kg)

DATA INTEGRATION WITH COTS AND MOTS DEVICES

- › Windows® devices
- › Android® devices
- › Linux® devices
- › Military radios

MAIN I/O CONNECTOR

- › Nonproprietary connector
- › USB – NMEA or IS-GPS-153
- › RS-232 – NMEA or IS-GPS-153
- › 1PPS timing
- › External on/off discrete

AUXILIARY CONNECTOR

- › Crypto key fill
- › Waterproof
- › Attached cover

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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