



RFA-2G CRPA Anti-Jam GNSS Receiver

The RFA-2G is a low-power CRPA solution for resilient Position, Navigation, and Timing (PNT) under jamming interference. It offers exceptional low-cost benefits for high-volume productions, making advanced GNSS resilience accessible.

Employing Controlled Radiation Pattern Antenna (CRPA) technology, RFA-2G can form a null in the antenna pattern towards the jammer's direction to suppress interference effectively.

RFA-2G has an internal GPS/GLONASS/Galileo/BeiDou receiver. It outputs NMEA messages over a 6-pin wafer connector interface, ensuring easy deployment across land, sea, and air autonomous platforms.

BENEFITS

- Jamming Protection
- Cost-Effective
- Plug and Play
- Easy to Integrate

APPLICATIONS

- Vehicle Tracking: Real-time fleet management and logistics.
- Advanced Transportation: Smart city traffic systems and autonomous vehicles.
- Maritime Navigation: Precise ship routing and port operations.
- GNSS Time Synchronization: Power grids, telecom networks, and financial systems.
- Emergency Services: Reliable navigation for first responders.
- Unmanned Autonomous Systems: Drones, robots, and self-driving platforms.

TECHNICAL SPECIFICATIONS

Dimensions (cm)

12.6 x 5.0

Weight (g)

50

Current Consumption

Acquisition 147mA @ 5V

Tracking 128mA @ 5V

Antenna Array

2 Antenna CRPA Antenna

Simultaneous Wideband Jammer Antenna Nulling

1

Protected GNSS Signal

GPS L1

GLONASS L1

Galileo E1

BeiDou B1

QZSS L1

SBAS L1

Jammer Suppression

CW Tone Jammer 52dB

1MHz BW WFM Jammer 40dB

22MHz BW handheld Military Jammer 30dB

Connectors

6-pin Wafer Connector

Operating Voltage

5V DC

Operating Temperature

-40 ~ +85 degC

Serial Interface

3.3V LV-TTL UART

Protocol

NMEA-0183 V4.1, SkyTraq binary

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