

Anti-Jamming Technology



The EUROSTOCK SRL telecom company established in 2004 (ID № 1004601000594) is a distributor of a Russian company of RIMCO JSC. RIMCO JSC is a Russian electronics company that specializing in the development and production of high-quality Anti-Jamming Navigation Equipment for professional use.

The Anti-Jamming Technology from RIMCO JSC is battle-tested assured positioning technology that protects the satellite signals your UAV's, Air's, Ships and Car's based on.

The Wall-E16M/Wall-E8M/Wall-E4M controlled reception pattern antennas (CRPA)* were developed to protect military forces and have worked in combat zones for the last decade. The CRPA can also be protecting your passengers, crew and vehicle's right now.

The CRPAs offer higher protection against GNSS navigation warfare (NavWar) threats. If you are interested in discussing of anti-jamming technology, contact at e-mail.

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*** Controlled reception pattern antennas (CRPA) are active antennas that are designed to resist radio jamming and spoofing.**

The Wall-E4M Anti-Jamming Antenna

The purpose of using the Wall-E4M anti-jamming antenna is to ensure of stable reception of the navigation signal of global navigation satellite systems (GNSS) in conditions of navigation warfare. The system eliminates interference by applying novel beamforming techniques. With an 4-array CRPA antenna, the system can assure the normal operation of GNSS receiver in presence of multiple jamming sources. The Wall-E4M anti-jamming antenna is connected to the external GNSS receiver via a RF-connector.



Specification

Receive GNSS:

GALILEO E1 + GPS L1 + BDS B1

Interference Rejection:

GALILEO E1 + GPS L1 + BDS B1

Antenna Array (Antennas Element): 4

Anti-Jamming: 70-80 dB for 1 jam/60 dB for 3 jam

Power Supply: 12-24 V

Power Consumption: 12 W

RF Connector: SMA

Power Connector: J30J

Weight: 170 g

Size: 60 x 60 x 30 mm

Temperature: -40°C to +85°C

Military drones, also known as unmanned combat aerial vehicles (UCAVs), are unmanned aircraft systems (UAS) specifically designed for defense and military operations.

While the technology behind military drones has evolved rapidly, they continue to be a focal point for innovation, especially with new anti-jamming technologies, and advanced inertial navigation system, enhancing their effectiveness in the field.

APPLICATION AREAS

- Military Drones or Unmanned Combat Aerial Vehicles (UCAVs)
- Guided Munitions

Advantages

- Up-converter RF output for external GNSS receivers
- Up to 80 dB J/S performance with external third party GNSS receiver
- Small size: 60 mm × 60 mm x 30 mm
- Low power consumption: less than 12.0 W

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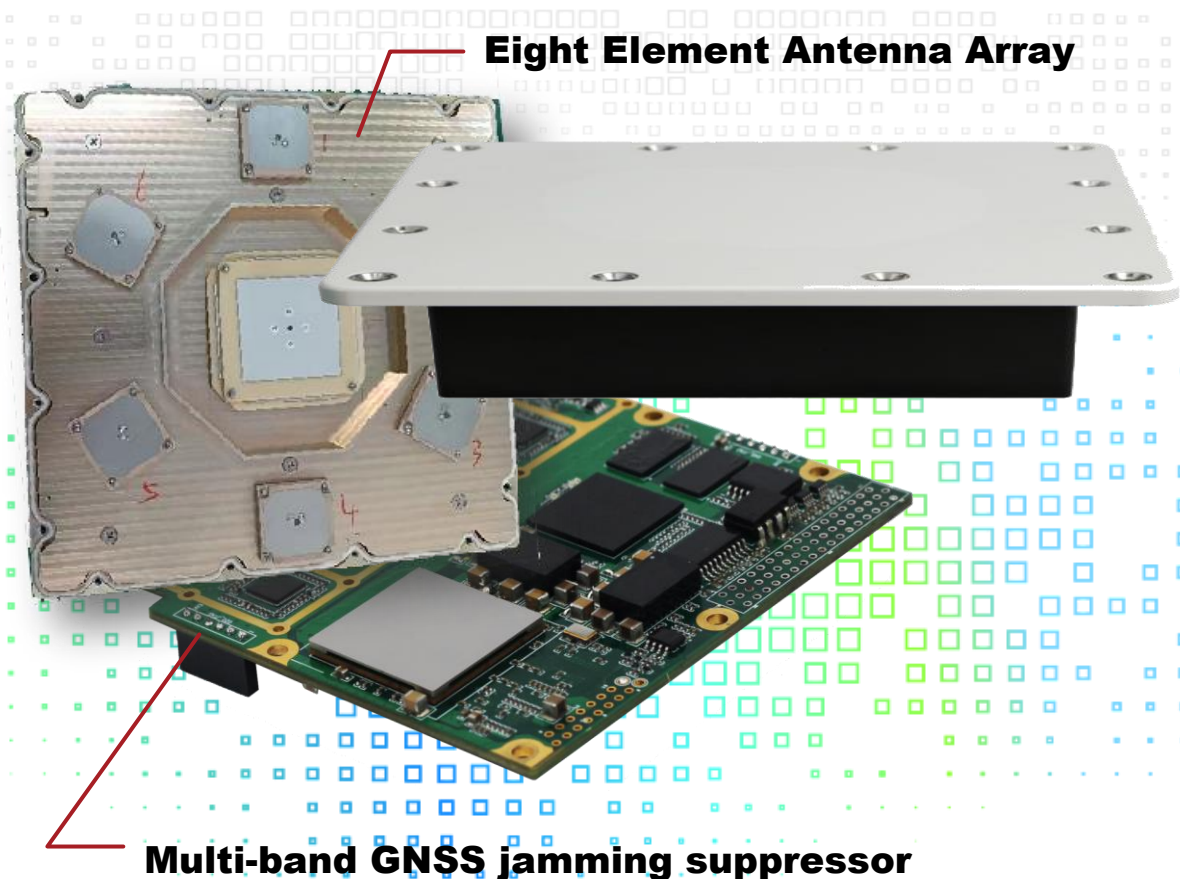
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The Wall-E8M Anti-Jamming Antenna

The purpose of using the Wall-E8M anti-jamming antenna is to ensure of stable reception of the navigation signal of global navigation satellite systems (GNSS) in conditions of navigation warfare. The system eliminates interference by applying novel beamforming techniques. With an 8-array CRPA antenna, the system can assure the normal operation of GNSS receiver in presence of multiple jamming sources. The Wall-E8M anti-jamming antenna is connected to the external GNSS receiver via a RF-connector.



Eight Element Antenna Array

Multi-band GNSS jamming suppressor

Specification

Receive GNSS:

GLONASS L1 + GALILEO E1 + GPS L1 + BDS B1

Interference Rejection:

GALILEO E1 + GPS L1 + BDS B1

Antenna Array: 8 Array CRPA Antenna

Anti-Jamming: 90-95 dB for 1 jam/80 dB for 3 jam

Power Supply: 18-24 V

Power Consumption: 20 W

RF Connector: TNC

Power Connector: JY27496

Weight: 900 g

Size: 210 x 210 x 35 mm

Temperature: -40°C to +85°C

Environmental Tests: MIL-STD-810G

EMI / EMC: MIL-STD-461F

APPLICATION AREAS

- Aircraft/Helicopters/UAV's
- Guided Munitions
- Armored Vehicles
- Naval Platforms
- Advanced Transportation Systems
- Military Communications
- Armored Trucks

Advantages

- Up-converter RF output for external GNSS receivers
- Up to 95 dB J/S performance with external third party GNSS receiver
- Small size: 210 mm × 210 mm × 35 mm
- Low power consumption: less than 20.0 W

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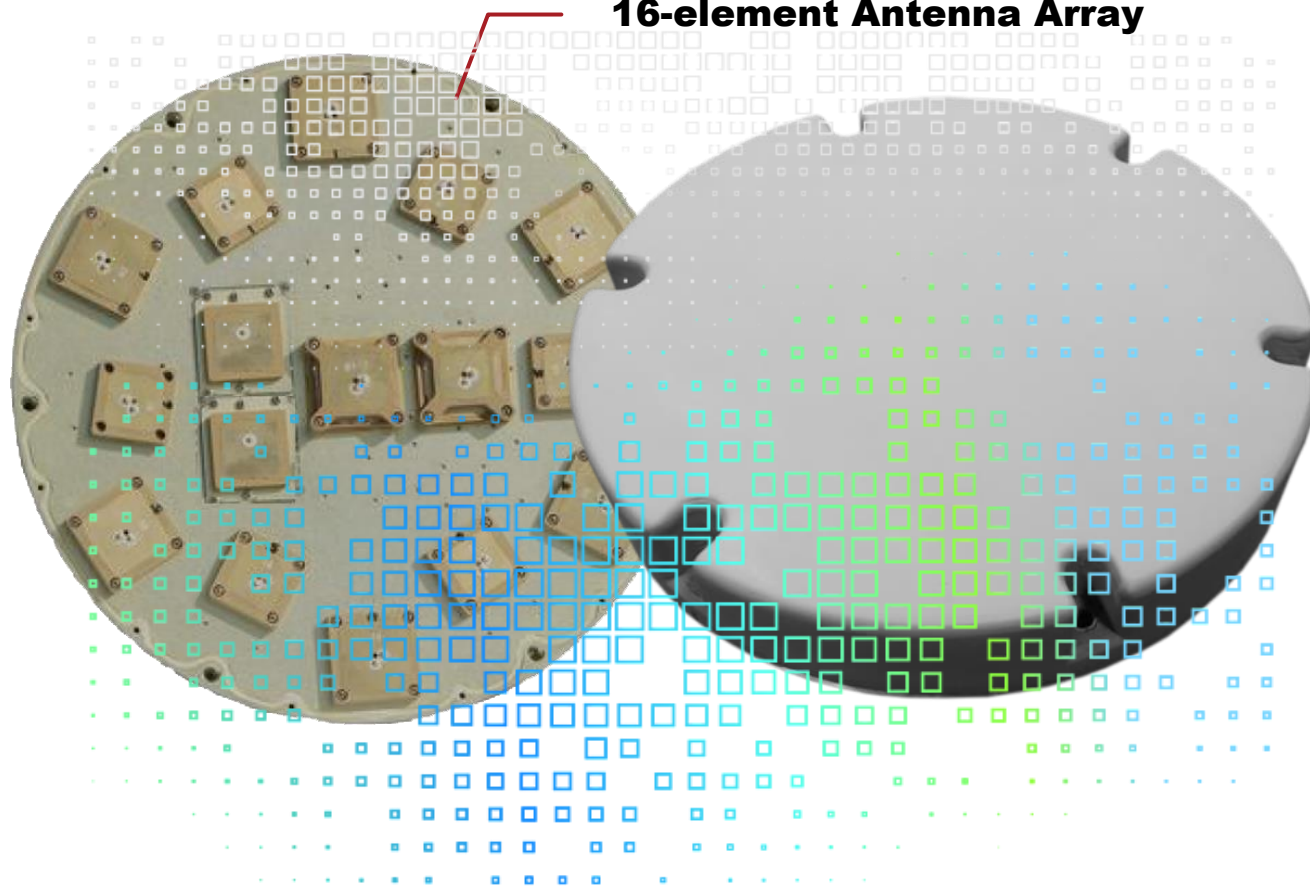
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The Wall-E16M Anti-Jamming Antenna

The purpose of using the Wall-E16M anti-jamming antenna is to ensure of stable reception of the navigation signal of global navigation satellite systems (GNSS) in conditions of navigation warfare. The system eliminates interference by applying novel beamforming techniques. With an 16-array CRPA antenna, the system can assure the normal operation of GNSS receiver in presence of multiple jamming sources. The Wall-E16M anti-jamming antenna is connected to the external GNSS receiver via a RF-connector.

16-element Antenna Array



Specification

Receive GNSS:

GALILEO E1 + GPS L1 + BDS B1

Interference Rejection:

GALILEO E1 + GPS L1 + BDS B1

Antenna Array: 16 Array CRPA Antenna

Anti-Jamming: 100 dB for 1 jam/75 dB for 15 jam

Power Supply: 18-24 V

Power Consumption: 55 W

RF Connector: TNC

Power Connector: JY27496

Weight: 7000 g

Size: Ø 370 x 48 mm

Temperature: -40°C to +85°C

Environmental Tests: MIL-STD-810G

EMI / EMC: MIL-STD-461F

APPLICATION AREAS

- UAV's/Aircraft/Helicopters
- Guided Munitions
- Armored Vehicles
- Naval Platforms
- Advanced Transportation Systems
- Military Communications
- Armored Trucks

Advantages

- Up-converter RF output for external GNSS receivers
- Up to 100 dB J/S performance with external third party GNSS receiver
- Low power consumption: less than 55.0 W

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The GNSS Receiver



Specifications

Channel: 1408 channels

Received Band: GLONASS L1/L2 + GPS L1/L2/L5 + BDS B1I/B2I/B3I/B1C/B2a/B2b + Galileo E1/ E5a/E5b/E6 + QZSS L1/L2/L5/L6

Single Point Positioning(RMS): Horizontal: 1.5m; Vertical: 2.5m

Time Accuracy(RMS): 20 ns

Velocity Accuracy (RMS): 0.03 m/s

Cold Start: < 12 s

Data output frequency: 1,2,5,10,20 Hz

Data output protocol: NMEA 0183

Interface: RS-232/ UART/ USB

Antenna port: SMA-F

Weight: 50 g

Dimensions: 64 x 53 x 24 mm

Supply voltage: +5 V

Power consumption: 0.5 W

Operating temperature: - 40° C to + 71° C

Storage temperature: - 55° C to + 85° C

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