

Anti-Jamming & Anti-Spoofing Technology

Wall-E16M/Wall-E8M/Wall-E4M1 Series

GNSS Controlled Reception Pattern Antenna (CRPA)

Supports IRNSS/NavIC L5 1176.45 MHz and S 2492.028 MHz

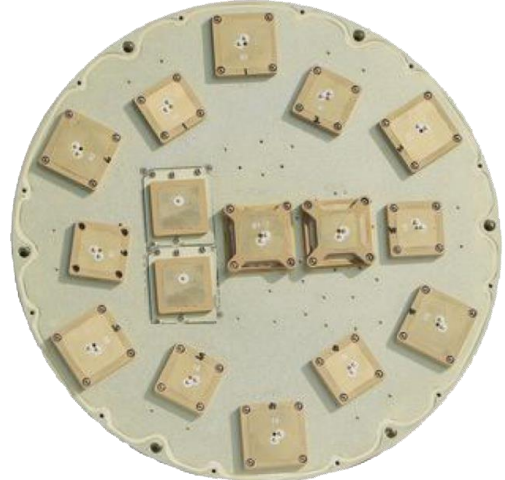
RIMCO JSC Wall-E16M/Wall-E8M/Wall-E4M1 anti-jamming GNSS CRPA can mitigate/nullone interference or jamming signals in Global Navigation Satellite System (GNSS) bands offer higher protection against electronic warfare systems threats.

U.S. military has the technical ability to limit or deny GPS access through Selective Availability.

IRNSS L5/S and GLONASS L1/L2 band capability enables this RIMCO's CRPA's to use not only in industrial but also in many critical military applications.

In the realm of CRPA antennas, the S-Band is not just a frequency range, a cornerstone for critical advancements and innovations expected to shape the future. We're standing on the brink of a transformative era, with the S-band at its heart.

Battle-tested, these only russian homegrown Wall-E16M/Wall-E8M/Wall-E4M1 anti-jamming systems have proven their effectiveness. Our CRAPs are not subject to any rules International Traffic in Arms Regulations (ITAR).



16-Element Antenna Array

Wall-E16M Specifications

Receive GNSS and Interference Rejection:

IRNSS L5/S + GLONASS L1+ GPS L1+BDS B1

Antenna Array: Flat or Conformal (option)

Antenna Array: 16 element

Simultaneous Independent Nulling: 15

Delivers Anti-Jamming Performance:

100 dB for 1 jammer (with GNSS receiver)

75 dB for 15 jammer

Power Supply: 12 V DC

Power Consumption: 30 W

RF Connector: SMA-F

Power Connector: J30J

Weight: 1400 g

Size: 200 x 260 x 37 mm

Temperature: -40°C to +85°C

Environmental Tests: MIL-STD-810G

EMI / EMC: MIL-STD-461F

Cooling: Convection

APPLICATION AREAS

Aircraft/Helicopters/UAV's

Armored Vehicles

Naval Platforms

Wall-E8M Specifications

Receive GNSS:

IRNSS L5/S*+GLONASS L1/GPS L1/BDS B1

Interference Rejection:

GALILEO E1/GPS L1/BDS B1 (option 1)

GLONASS L1/GLONASS L2 (option 2)

Antenna Array (Antennas Element): 9

Simultaneous Independent Nulling: 7

Delivers Anti-Jamming Performance:

95 dB for 1 jammer (with GNSS receiver)

80 dB for 3 jammer

Power Supply: 12 V DC

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

Cooling: Convection

Wall-E OEM GNSS Anti-Jamming Module

Wall-E4M1 Specifications

Receive GNSS and Interference Rejection:

IRNSS L5+GLONASS L1+GPS L1+BDS B1

Antenna Array: 4 or 5 element

Antenna Array: Flat or Conformal (option)

Simultaneous Independent Nulling: 3

Delivers Anti-Jamming Performance:

90 dB for 1 jammer (with GNSS receiver)

75 dB for 3 jammer

Power Supply: 5-9 V DC

Power Consumption: 5 W

RF Connector: SMA-F

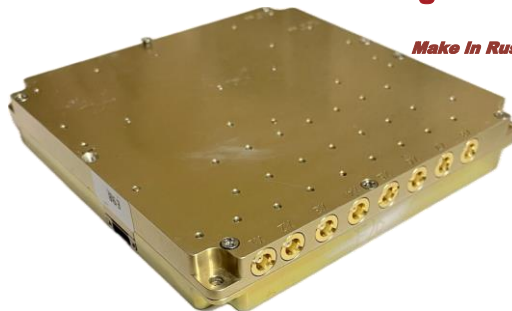
Power Connector: J30J

Weight: 100 g

Size: 60 x 60 x 20 mm

Temperature: -40°C to +85°C

Cooling: Convection



Make In Russia

Wall-E OEM GNSS anti-jamming module is designed for use in 4/8/16-element controlled reception pattern antennas (CRPA). Wall-E module employ rugged design which offers high reliability.

GNSS interference Rejection: GPS/Galileo/NavIC/GLONASS /BeiDou /can be used

Simulations independent nulling: 3 or 7;

Up to 100 dB J/S performance with external third party GNSS receiver

Small size: 100 mm x 100 mm x 15 mm

Weight: 256,4 g

RF connector: 8 RF IN, 2 RF OUT;

Power connector: J63A-2F2-021-431-TH;

Power Supply +12 - 24 V DC;

Temperature -40 - +85 C;

Tests: MIL-STD-810G; EMI/ EMC: MIL-STD-461F;

Performance: Actual performance for specific threat environments varies and is classified.

Contact us for more information info@rimco.ru

Advantages

- **Supports S/L5 Band IRNSS and L1/L2 Band GLONASS**
- **Up to 100 dB J/S performance with external third party GNSS receiver (example Trimble BD9250s)**
- **Units employ rugged design which offers high reliability (high MTBF) and low Life-Cycle-Cost**
- **Export Control: ITAR FREE**

RIMCO JSC is a Russian electronics company specializing in the development and production of anti-jamming systems or Controlled Reception Pattern Antenna (CRPA) design and GNSS applications. With advanced interference mitigation algorithms (RU Patents 179 926,230 964), the Wall-E4/E8/E16 delivers state-of-the-art performance while offering the smallest footprint among CRPAs in its class. Our team brings together decades of experience in RF and microwave engineering, ensuring that every product meets the highest standards of quality, reliability, and performance.