

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, GALILEO E6 1278.75 MHz

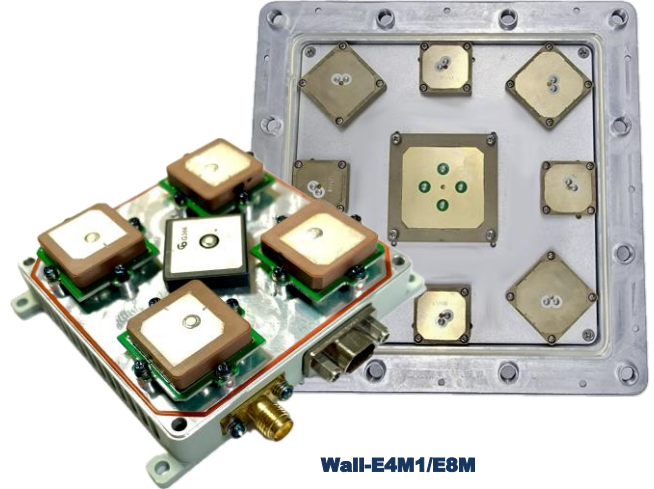
RIMCO JSC Wall-E16M/Wall-E8M1/Wall-E4M1 anti-jamming GNSS CRPA can mitigate/null one interference or jamming signals in Global Navigation Satellite System (GNSS) bands offer higher protection against electronic warfare systems threats.

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

IRNSS L5/S, GLONASS L1/L2, GPS L1/L2/L5 and GALILEO E6 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 CRPAs are not subject to any rules International Traffic in Arms Regulations (ITAR).



Wall-E4M1/E8M

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

Wall-E8M1 Specifications

Receive GNSS:

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

Interference Rejection:

GALILEO E1/GPS L1/BDS B1/B3 (option 1)

GLONASS L1/E6/GLONASS L2 (option 2)

Antenna Array (Antennas Element): 8 or 9

Simultaneous Independent Nulling: 7

Delivers Anti-Jamming Performance:

105 dB for 1 jammer (with GNSS receiver)

Power Supply: 12 V DC

Power Consumption: 20 W

RF Connector: TNC

Weight: 400 g

Size: 130 x 150 x 21 mm

Temperature: -40°C to +85°C

Cooling: Convection

Performance: Actual performance for specific threat environments varies and is classified.
Contact us for more information info@rimco.ru

Wall-E4M1 Specifications

Receive GNSS and Interference Rejection:

IRNSS L5+GLONASS L1+GPS L1+BDS B1

Antenna Array: 4 or 5 elements

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: 150 g

Size: 65 x 65 x 20 mm

Temperature: -40°C to +85°C

Cooling: Convection

APPLICATION AREAS

Aircraft/Helicopters/UAV's

Armored Vehicles

Naval Platforms

Advantages

- **Supports S/L5 Band IRNSS, L1/L2 Band GLONASS and E6 Band GALILEO**
- **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.