RIMCO JSC

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The Wall-E16M

Anti-Jamming Anti-Spoofing Integrated CRPA GNSS

RIMCO JSC Wall-E16M is a 16-element GNSS Controlled Reception Pattern Antenna (CRPA) canmitigate/nullone interference or jamming signals in Global Navigation Satellite System (GNSS) bands offer higher protection against electronic warfare systems (EW) threats. Signal processing algorithms detect interference signals and amplitude and phase from each antenna element are adjusted in real-time to either to form a null in the direction of the interference source (null steering).

Battle-tested, these homegrown anti-jamming systems have proven their effectiveness. With warfare evolving, militaries worldwide are adopting electronic warfare cutting-edge systems and are continuously updating their arsenals. RIMCO, recognizing CRPAs growing significance, has prioritized their development over the past decade.

Our Wall-E16 CRAPs are not subject to any rules International Traffic in Arms Regulations or Export Administration Regulations.

Specification

Receive GNSS and Interference Rejection:
GLONASS L1+GALILEO E1+GPS L1+BDS B1
Antenna Array: 16 Array CRPA Antenna
Anti-Jamming:
100 dB for 1 jammer
75 dB for 15 jammer
Power Supply: 12 V
Power Consumption: 30 W
RF Connector: SMA-F
Power Connector: J30J
Weight: 1400 g
Size: 200 x 260 x 37 mm
Temperature: -40ºC to +85ºC
Environmental Tests: MIL-STD-810G
EMI / EMC: MIL-STD-461F

APPLICATION AREAS

- **Aircraft/Helicopters/UAV's**
- **Armored Vehicles**
- **Naval Platforms**

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 30.0 W**

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The Wall-E8M

Anti-Jamming Anti-Spoofing Integrated CRPA GNSS

RIMCO JSC GNSS Controlled Reception Pattern Antenna (CRPA) canmitigate/ nullone interference or jamming signals in GNSS bands. The Wall E8M is a 8-element CRPA designed for band Global Navigation Satellite System (GNSS) signal reception.
CRPA technology creates radiation pattern nulls in the direction of the interference/jammer, preventing LNA saturation and ensuring a usable GNSS signal. The output is a standard RF signal with the interference removed and a signal that is compatible with all GNSS receivers.

Specification

Receive GNSS:
GLONASS L1 + GALILEO E1 + GPS L1 + BDS B1
Interference Rejection:
GALILEO E1 + GPS L1 + BDS B1
Antenna Array (Antennas Element): 8
Anti-Jamming:
95 dB for 1 jam
80 dB for 3 jam
Power Supply: 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

APPLICATION AREAS

- **Aircraft/Helicopters/UAV's**
- **Armored Vehicles**
- **Naval Platforms**

Advantages

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