

TUALAJ 4300

GNSS ANTI-JAM CRPA SYSTEM



GENERAL DESCRIPTION

TUALCOM Anti-Jam GNSS CRPA System supports critical missions by providing jam free GNSS signals.

The system eliminates interference by applying novel beamforming techniques. With a 4-array CRPA antenna, the system can assure the normal operation of GNSS receiver in presence of multiple jamming sources.

TUALCOM Anti-Jam GNSS CRPA System can be employed using various configurations and operates with civil and military GPS receivers for the land, sea, air platforms (including unmanned aerial systems) and fixed installations. The product has an embedded GNSS receiver that supports all satellite constellations. Wide bandwidth of the system also enables the SBAS signals to GNSS receiver.

The system can be provided with various types of antennas. Physical solutions for further suppression performance such as elevation masking can also be provided as antenna option.

BENEFITS

- Immediate availability for urgent operational needs
- Simple assembly means easy to install or retrofit
- Compatible with all types of external GPS receivers and vehicle navigation systems
- Minimal integration training required
- Light Weight
- Ultra Compact Size
- Superior Suppression Performance
- Embedded GNSS Receiver Option
- Integrates easily into new or legacy platforms
- Assured PNT

APPLICATION AREAS

- Fixed Winged Aircraft
- Rotary Wing Aircraft
- Guided Munitions
- Unmanned Autonomous Systems
- Armored Vehicles
- Naval Platforms, Coast Guard Platforms
- Maritime Cybersecurity
- Advanced Transportation Systems
- Military Communications
- Armored Trucks, Critical Asset Tracking

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Dimensions (cm)

11 x 10 x 2.7

Weight (g)

460

Power Consumption (w)

< 18 W

Antenna Array

4 Array CRPA Antenna

Simultaneous Independent Nulling

3

Simultaneous Active Bands

GPS L1,L2

GLONASS G1, G2

GALILEO E1

BEIDOU B1C SBAS

Nominal Wideband Suppression

>40 dB

Data Interfaces

Ethernet, Serial

Bandwidth

Up to 30 Mhz

(depends to selected band option)

Connectors

5x SMA Female,

Micro-D 25-pin Socket

Operating Voltage

12-28 Vdc

Operating Temperature

-40 °C to +85 °C

Internal GNSS Receiver

BeiDou (B1C), Galileo (E1,E5a),

SBAS GLONASS (L1,L2),

GPS (L1,L2), QZSS (L1)

Internal GNSS Tracking Sensitivity

-164 dBm

RTCM Support

Yes

Environmental Tests

MIL-STD-810G

EMI / EMC

MIL-STD-461F

