



TUALAJ 8300 - D

CRPA GNSS Anti-Jam System

GENERAL DESCRIPTION

TUALCOM CRPA Anti-Jam GNSS Systems support critical missions by providing jam free GNSS signals and resilient PNT.

With its 8-element CRPA antenna, state-of-art digital controller and novel beamforming techniques TUALAJ 8300-D eliminates interference to ensure uninterrupted operation of GNSS receivers in 3 different frequency bands, in the presence of jamming sources from up to 7 different directions. The set of protected active bands is pre-selectable amongst available options.

TUALAJ 8300-D supports various messaging formats and integrates seamlessly with civil and military GNSS receivers deployed on land/sea platforms and fixed installations. TUALAJ 8300-D also offers embedded high performance GNSS an option and allows SBAS signals to be utilized for increased accuracy and reliability.

TUALAJ 8300-D is encapsulated in specifically designed housing to withstand the harshest environmental conditions and therefore is especially suitable for maritime platforms. In addition to CRPA, protection performance is further improved using adaptive notch filtering and pulse blanking.



BENEFITS

- Protection against jammers from 7 different directions
- Easy to install
- Plug and play integration into new or legacy platforms
- Immediate availability for urgent operational needs
- Antenna and controller integrated as a single unit.
- Compatible with all types of external GPS receivers and vehicle navigation systems, including M Code
- Compact Size
- Superior suppression performance
- Embedded GNSS receiver option
- Compatibility with military standards
- Resilient PNT

APPLICATION AREAS

- Naval and Coast Guard Platforms
- Armored Land Vehicles
- Maritime EW Protection
- Critical Infrastructure EW Protection
- Military Communications

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Dimensions (cm)

Diameter: Ø25
Height: 15.8

Weight (g)

4150

Power Consumption

Maximum 24 W



Antenna Array

8 Array CRPA Antenna



Simultaneous Independent Nulling

7



Simultaneously Protected Active Bands

Option 1

GPS (L1, L2), GLONASS (G1, G2), GALILEO E1, BEIDOU B1, SBAS

Option 2

GPS (L1, L2, L5), GALILEO (E1, E5a, E5b), BEIDOU B1, SBAS



Nominal Wideband Suppression

>50 dB



Connectors

2 x D38999
1 x TNC



Operating Voltage

18-32 Vdc



Operating Temperature

-40 °C to +85 °C



Embedded GNSS Receiver (Optional)

GPS (L1, L2), GLONASS (G1, G2), Galileo (E1, E5b), BeiDou (B11), SBAS, QZSS (L1), RTCM Support



Environmental Tests

MIL-STD-810G



EMI / EMC

MIL-STD-461F



Data Interfaces


Ethernet (Optional)
Serial RS-232
Serial RS-485

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