



# TUALAJ 16300

## 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.

TUALAJ 16300 is the first and only anti-jam system in the world that provides protection against 15 jammers. With its 16-element CRPA antenna, state-of-art digital controller and novel beamforming techniques eliminate interference to ensure uninterrupted operation of GNSS receivers in the presence of jamming sources from up to 15 different directions in 3 different frequency bands. The set of protected active bands is pre-selectable amongst available options.

TUALAJ 16300 supports various messaging formats and integrates seamlessly with civil and military GNSS receivers deployed on land, sea, air manned/unmanned platforms and fixed installations. TUALAJ 16300 also offers embedded high performance GNSS receiver as an option and allows SBAS signals to be utilized for increased accuracy and reliability.

In addition to CRPA, protection performance is further improved using adaptive notch filtering and pulse blanking.

### BENEFITS

- Protection against jammers from 15 different directions
- Easy to install
- Plug and play integration into new or legacy platforms
- Immediate availability for urgent operational needs
- 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

- Fixed/Rotary Wing Aircraft
- GNSS Guided Munitions
- Unmanned Autonomous Systems
- Armored Land Vehicles
- Naval and Coast Guard Platforms
- Maritime EW Protection
- Critical Infrastructure EW Protection
- Advanced Transportation Systems
- Military Communications

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## CRPA GNSS Anti-Jam System



### Dimensions (cm)

17 x 10 x 2.8 (DACU)  
25Ø x 2.4 (Antenna)



### Weight (g)

760 (DACU)  
1380 (Antenna)



### Power Consumption

Maximum 25 W



### Antenna Array

16 Array CRPA Antenna



### Simultaneous Independent Nulling

15



### 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

17 x MCX  
1 x Micro-D 25-pin Socket



### Operating Voltage

12-32 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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 TUALCOM

 [www.tualcom.com](http://www.tualcom.com)

 [sales@tualcom.com](mailto:sales@tualcom.com)

 +90 (312) 485 22 85



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