

# TUALAJ 8300 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 eliminates interference to ensure uninterrupted operation of GNSS receivers in the presence of up to 7 jamming sources in 3 different frequency bands. The set of protected active bands is pre-selectable amongst available options.

TUALAJ 8300 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 8300 also offers embedded high performance GNSS receiver as an option and allows SBAS signals to be utilized for increased accuracy and reliability.

Two different CRPA antennas are offered to be paired with TUALAJ 8300 for different weight and size requirements. In addition to CRPA, protection performance is further improved using adaptive notch filtering and pulse blanking.

### **BENEFITS**

- Protection against 7 jammers in all constellations and frequency bands
- 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
- Light weight and 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



### **TUALAJ 8300**

# CRPA GNSS ANTI-JAM SYSTEM



#### Dimensions (cm)

7 x 13.9 x 2.1 (DACU) 14 x 14 x 2.2 (Antenna Option 1) 11 x 11 x 2.2 (Antenna Option 2)

#### Weight (g)

380 (DACU) 750 (Antenna Option 1) 472 (Antenna Option 2)

#### **Power Consumption**

Maximum 24 W

#### **Antenna Array**

8 Array CRPA Antenna

# Simultaneous Independent Nulling

# 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**

9x MCX Female, Micro-D 25-pin Socket

#### **Operating Voltage**

12-28 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

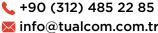
#### EMI / EMC

MIL-STD-461F

#### Data Interfaces

Serial RS-485, Serial RS-232

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