



# TUALAJ 4100-MINI

## CRPA GNSS Anti-Jam System

### GENERAL DESCRIPTION

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

With its 4-element CRPA antenna, state-of-the-art digital controller and novel beamforming techniques TUALAJ 4100 MINI eliminates interference to ensure uninterrupted operation of GNSS receivers in the presence of jamming sources from up to 3 different directions.

TUALAJ 4100-Mini 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 4100-Mini also offers an 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 3 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
- Antenna and controller integrated as a single unit
- Light weight and ultra compact size
- Superior suppression performance
- Embedded GNSS receiver option
- Compatibility with military standards
- Resilient PNT

### APPLICATION AREAS


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

# TUALAJ 4100-MINI

## CRPA GNSS Anti-Jam System




### Dimensions (cm)


 7.2 x 7.2 x 2.3

### Weight (g)


 190

### Power Consumption


 Maximum 6 W

 **Antenna Array**  
4 Array CRPA Antenna

 **Simultaneous Independent Nulling**  
3


 **Simultaneously Protected Active Bands Option 1**  
GPS L1  
GALILEO E1, BEIDOU B1  
SBAS

 **Nominal Wideband Suppression**  
>40 dB

**Connectors**  
 1x SMA Female, Micro-D


 **Operating Voltage**  
9-28 Vdc

 **Operating Temperature**  
-40 °C to +85 °C

 **Embedded GNSS Receiver (Optional)**  
GPS (L1), Galileo (E1), BeiDou (B1),  
SBAS, QZSS (L1), RTCM Support

 **Environmental Tests**  
MIL-STD-810G

 **EMI / EMC**  
MIL-STD-461F

 **Data Interfaces**  
Serial RS-485

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