

# GNSS ANTI-JAM CRPA SYSTEM

## GENERAL DESCRIPTION

TUALCOM Anti-Jam GNSS CRPA System supports critical missions by providing jam free GNSS signals. System eliminates interference by applying nulls to the direction of jamming signals. With embedded 4/8-array antenna, system can assure the normal operation of GNSS receiver in presence of multiple jamming sources. TUALCOM Anti-Jam GNSS CRPA System can be configured in different configurations:

- **TUALAJ-4110:** GPS L1
- **TUALAJ-4200:** GPS L1, Glonass L1
- **TUALAJ-4210:** GPS L1, GPS L2
- **TUALAJ-4200-S\*:** GPS L1, Glonass L1/GPS L2
- **TUALAJ-4300:** GPS L1, GPS L2, Glonass L1
- **TUALAJ-8300:** GPS L1, GPS L2, Glonass L1

\* (-S) This type features software switchable Glonass L1 and GPS L2 band along with GPS L1.

GPS L1: 1575.42 MHz

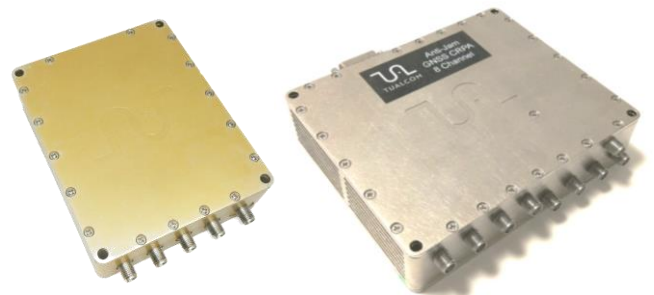
GPS L2: 1227.6 MHz

Glonass L1: 1600 MHz

## KEY SPECIFICATIONS

Light Weight  
 Ultra Compact Size  
 Superior Suppression Performance  
 GPS L1/L2 and Glonass L1 Compatible  
 Embedded GNSS Receiver Option

For all versions embedded GNSS receiver which can provide GPS L1/L2 and Glonass based solution can be presented as an option. Bandwidth of system also enables the SBAS signals to GNSS receiver. 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.



## TECHNICAL SPECIFICATIONS

Type	TUALAJ-4110	TUALAJ-4200	TUALAJ-4210	TUALAJ-4200-S	TUALAJ-4300	TUALAJ-8300
<b>Dimensions (cm)</b>	10 x 8 x 1.8	10 x 8 x 2.7	10 x 8 x 2.7	10 x 8 x 2.7	11 x 10 x 2.7	12 x 10 x 2.7
<b>Weight (g)</b>	240	300	300	300	360	400
<b>Power Consumption</b>	< 5 W	< 10 W	< 10 W	< 10 W	< 15 W	< 15 W
<b>Antenna Array</b>	4 Array					8 Array
<b>Wideband Suppression</b>	> 40 dB					> 50 dB
<b>Simultaneous Nulling</b>	3					7
<b>Data Interface</b>	Ethernet, Serial, NMEA					
<b>Bandwidth</b>	24 MHz (centered on operating frequency)					
<b>Connectors</b>	SMA Female, Micro-D 25-pin					
<b>Operating Voltage</b>	9 - 28 Vdc					
<b>Operating Temp.</b>	-40 °C to +85 °C					
<b>Environmental Cond.</b>	MIL-STD-810G					

TUALCOM

adres: ODTÜ Teknokent Galyum Blok BK-4 06800 Çankaya | Ankara

telefon: +90 312 485 22 85 mail: [info@tualcom.com.tr](mailto:info@tualcom.com.tr)