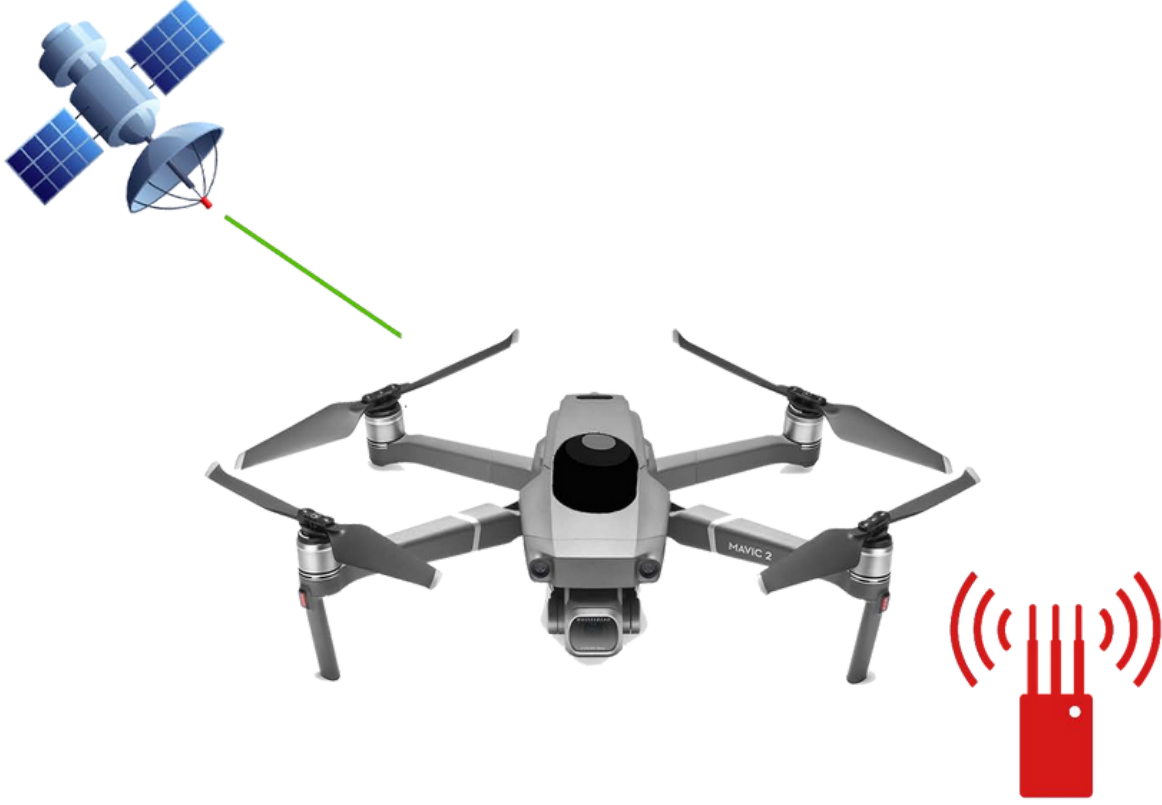




BORAJ-V1 GNSS ANTI-JAM SYSTEM

**While others lose signal, our
partners stay on course**

Our solutions aren't just engineered — they're battle-hardened.





HIGHLIGHTS

- Prevents GNSS jamming caused by Jammers and other multipath signals
- SAJ (GNSS Shield) + Anti-Jam Receiver & Antenna
- When used with SAJ, BORAJ provides 40-50 dB suppression of unwanted signals

Receiver Specifications

Supported Frequencies	GPS L1, L2, L5, BDS B1L, B2L, B3L GLONASS G1, G2 Galileo E1, E5a, E5b QZSS L1C/A, L2C, L5 SBAS L1C/A
Single Point Positioning (RMS)	Horizontal: 1.5 m - Vertical: 2.5 m
Time Accuracy	20 ns
Receiver Sensitivity	-166 dBm
Velocity Accuracy (RMS)	0.03 m/s
Cold Start	< 30 s
Initialization time	<5s (typical)
Initialization reliability	>99.9%
Data Update Rate	20 Hz
Data Format	NMEA 0183
Operating Temperature	-40°C ~+95 °C
Storage Temperature	-40°C ~+98 °C
Humidity	95% No condensation
Vibration	MIL-STD-810 F
Shock	MIL-STD-810 F
Protocol Interface	RS-422/RS-485/RS-232
Input Supply Voltage (VDC)	3.3

GNSS Antenna Specifications

Frequency Range	1559.052~1610 MHz - 1205.094~1278.75 MHz
Polarization	RHCP
Axial Ratio	<3 at zenith
VSWR	2:1max.
Antenna Pattern	360° (horizontal) 90° (vertical)
Antenna Gain	3 dBic
Power Consumption	10W
LNA Gain	B1/L1/G1/E1/E2 /L5 : 30±2dB - B2/L2/G2/E5b : 32 ±2dB
Noise Figure	<2.1 dB
Supply Voltage	3.3 – 5 VDC
Current	<50 mA
Operating Temperature	-40°C - +85°C
Storage Temperature	-45°C - +85°C
Humidity	%95
Waterproof	IP67

Mechanical Dimensions (Receiver + Antenna)

Dimensions	90mm diameter
Weight	200 g
Interface	TTL (115200)