

GNSS2 Series is a Global Navigation system capable to provides precise positioning service data through multiple satellite constellations. The GNSS is providing geolocation data, heading, speed, time or elevation data.

Enhanced through the use of external high gain antennas to perform best data in any scenario, ready for fixed or mobile applications, and incorporating the latest anti-jamming technology and offers unbeatable robustness and reliability.

Key features:

- High accuracy reading
- High performance 544 satellite tracking
- Advanced anti-jamming / anti-spoofing
- Ionospheric disturbance protection
- Ultra precise positioning and heading
- Ethernet access and settings

- Fast cold start time of <45s.
- Low power consumption
- Wide working temperature range
- Desentangle nearby structure signal
- MIL-STD-810
- HELIOS C2 compatible









Specifications:

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	GNSS2				
Signal/bands	GPS: L1 C/A, L2C, L2 P(Y), L5				
	GLONASS: L1 C/A, L2C/A, L3, L2P				
	BeiDou: B1I, B1C, B2a, B2I, B3I				
	Galileo: E1, E5a, E5b				
	QZSS: L1 C/A, L2C, L5				
	NavIC: L5				
	SBAS: EGNOS, WAAS, GAGAN, MSAS, SDCM				
Formats	SBF, NMEA 0183, v3.01, v4.0, RTCM v2.x, v3.x (MSM included),CMR v2.0, CMR (CMR+ input)				
Connection	Ethernet port (TCP/IP, UDP, LAN 10/100 Mbps)				
RTK performance	Horizontal accuracy 0.6 cm. + 0.5 ppm.				
	Vertical accuracy 1cm + 1ppm				
	Initialisation 7 s				
GNSS attitude accuracy	Antenna separation	Heading	Pitch/Roll		
	1m.	0.15°	0.25°		
	5m.	0.03°	0.05°		



Position accuracy	Horizontal		ontal	Vertical	
Í	Standalone	1.2m.		1.9m.	
	SBAS	0.6m. 0.4m.		0.8m.	
	DGNSS			0.7m.	
Velocity accuracy	0.03m/s				
Maximum update rate	10Hz.				
Latency	<10ms.				
Time precision	xPPS out 5ns.		Event accuracy <20ns.		
Time to first fix	Cold start <45s.	Warm st	tart <20s.	Re-aquisition Avg. 1s.	
Tracking performance	Tracking 20dB	Tracking 20dBHz.		Acquisition 33dBHz.	
Operating temperature	-40°C./85°C.				
Humidity	5-95% (non-condensing)				
Vibration	MIL-STD-810G				
Antenna	2 high-precision antennas supporting triple-band and multi-constellation tracking				
Gain	32dB. typical				
Noise figure	2.5dB. typical				
Temperature	-40°/105°C				
IP rating	IP67				
Vibration	MIL-STD-810E Method 514.5				
Shock and Drop	MIL-STD-810G Method 516.6				





^{*} Al/Deep learning/Object classification and advanced features with HELIOS C2
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