



# EA204

## Smart Antenna

The EA204 GNSS Smart Antenna offers an affordable, professional-level accuracy for agriculture, marine, GIS, mapping, and other applications. Built-in GNSS board and MEMS, high-precision antenna, covering the reception of GPS, GLONASS, BDS, GALILEO, and L-Band signal.

- Atlas L-band corrections
- Support GPS, GLONASS, BDS, Galileo
- Compact design
- IP67 enclosure against harsh environments

# Product Specification

GNSS		Communication	
Satellite Tracked	GPS L1, GLONASS G1, BDS B1, GALILEO E1	Serial Ports	2 full-duplex RS-232, 1 CAN
	L-Band	Baud Rates	4800-115200bps
Update Rate	5Hz standard	Correction I/O Protocol	RTCM v2.3(DGPS)
	10Hz, 20Hz optional		RTCM v3.X (RTK)
Timing (1PPS) Accuracy	20 ns(RMS)	Data I/O Protocol	NMEA0183, NMEA2000
Cold Start	< 60 s typical	Timing Output	1PPS, CMOS, active low, falling edge sync, 10 kΩ, 10pF load
Warm Start	< 30 s typical	Event Marker Input	CMOS, active low, falling edge sync, 10 kΩ, 10pF load
Hot Start	< 10 s typical		
Speed Accuracy	0.03 m/s (RMS)		
Horizontal Accuracy	SBAS 1m (RMS)		
	Atlas Basic 0.25m (RMS)		
	RTK 8mm + 1ppm (RMS)		
Pitch / Roll Accuracy	< 1° (RMS)		
Power Supply		Physical	
DC 7-36V, 4W (12V), Reverse Polarity Protection		Dimensions	D146 × H70.5mm
L-Band		Weight	470g(typical)
Receiver Type	Single Channel	Enclosure	Aluminum base with ASA plastic cap
Channels	1539 to 1560 MHz	Antenna Mounting	3/4-14NPT female adapter
Sensitivity	-130 dBm	Status Indications (LED)	Power On(Red), RTK (Green), Other Status (Bi-colour)
Channel Spacing	5.0 kHz		
Satellite Selection	Manual and Automatic	MEMS	Provide pitch, roll data
Reacquisition Time	15 seconds (typical)	Power/Data Connector	12PIN Male Connector
		Environment	
		Operating Temperature	-40 °C to +70 °C
		Storage Temperature	-40 °C to +85 °C
		Humidity	100%, condensing
		Shock & Vibration	EP455 Section 5.15.1Random
		EMC	CE (ISO 14982 Emissions and Immunity) FCC Part 15, Subpart B, CISPR 22
		Water/Dust Proof	IP67

