



# AgAnt-3S

GNSS Smart Antenna



## Key Features

- 874 Channels, All GNSS Constellations
- Spoofing Detection
- Advanced Multipath Mitigation
- Fast Acquisition Channels
- J-Star (PPP)
- CAN 2.0
- USB & Serial
- 64GB Storage

AgAnt-3S is a GNSS Smart Antenna designed for agriculture and machine control applications. With an integrated wide-band antenna, AgAnt-3S operates with J-Star for a cm-level PPP solution globally. The compact and robust housing allows mounting on flat surfaces with four screws or mounted on standard 5/8 x 11 threads.

# AgAnt-3S Specifications



Tracking	Total Channels	874	
	GPS	L1 C/A, L1C, P1, P2, L2C, L5	
	GLONASS	L1 C/A, P1, P2, L2 C/A, L3	
	Galileo	E1, E5, E5A, E5B, E6	
	BeiDou	B1, B1C, B2B, B2, B2A, B3	
	QZSS	L1C C/A, L1C, L2C, L5, L6, L1S, L1Sb, L5S	
	SBAS	L1, L5	
	NavIC	L1, L5	
	L-Band	1525-1560 MHz	
Performance		Horizontal (m)	Vertical (m)
	Autonomous (Stand alone)	1.000	1.500
	SBAS	0.500	0.850
	DGPS	0.250	0.500
	JStar (PPP)	0.025	0.050
	RTK	0.008 + 1 ppm	0.015 + 1 ppm
	Network RTK	0.008 + 0.5 ppm	0.015 + 0.5 ppm
	Static / Fast Static	0.003 + 0.1 ppm	0.004 + 0.4 ppm
Time to First Fix	Cold Start	< 35 s	
	Warm Start	< 5 s	
	Reacquisition	< 1 s	
	RTK Initialization	2 - 6 s	
Output Rate	Position	up to 100 Hz	
	Measurements	up to 200 Hz	
Wired I/O	Main Connector	M12-A Male (Binder-USA p/n 76 0231 0111 00012-0200)	
	USB	USB 2.0 High Speed, up to 12 Mbps	
	Serial	RS232 / RS422 up to 460.8 kbps	
	CAN	CAN 2.0 (1 mbps)	
Storage	Internal Memory	Up to 64 GB	
Power	Input Voltage	+4.5 to +35 VDC	
	Power Consumption	2.1 - 2.3 W, all in view	
Physical	Dimensions	140 mm x 140 mm x 62 mm	
	Weight	461 g	
Environmental	Operating Temperature	-40°C to +80° C	
	Storage Temperature	-40°C to +85°C	
	Humidity	100% condensing	
	Shock	MIL-STD-810H (Method 516.8)	
	Vibration	MIL-STD-810H (Method 514.8)	
	Ingress Protection	IP67	

Refer to the user manual for full specifications.

GNSS performance is dependent on signal quality, satellite geometry, ionospheric and tropospheric conditions, baseline length, multipath effects and RF interference. Specifications may be changed without notice.